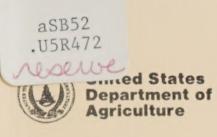
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Soil Conservation Service

Bismarck North Dakota



## ANNUAL REPORT OF FIELD PLANTINGS IN SOUTH DAKOTA

1986



Pasque-Flower

### United States Department of Agriculture Soil Conservation Service

1986 Report of
Plant Materials Field Plantings
in
South Dakota

by

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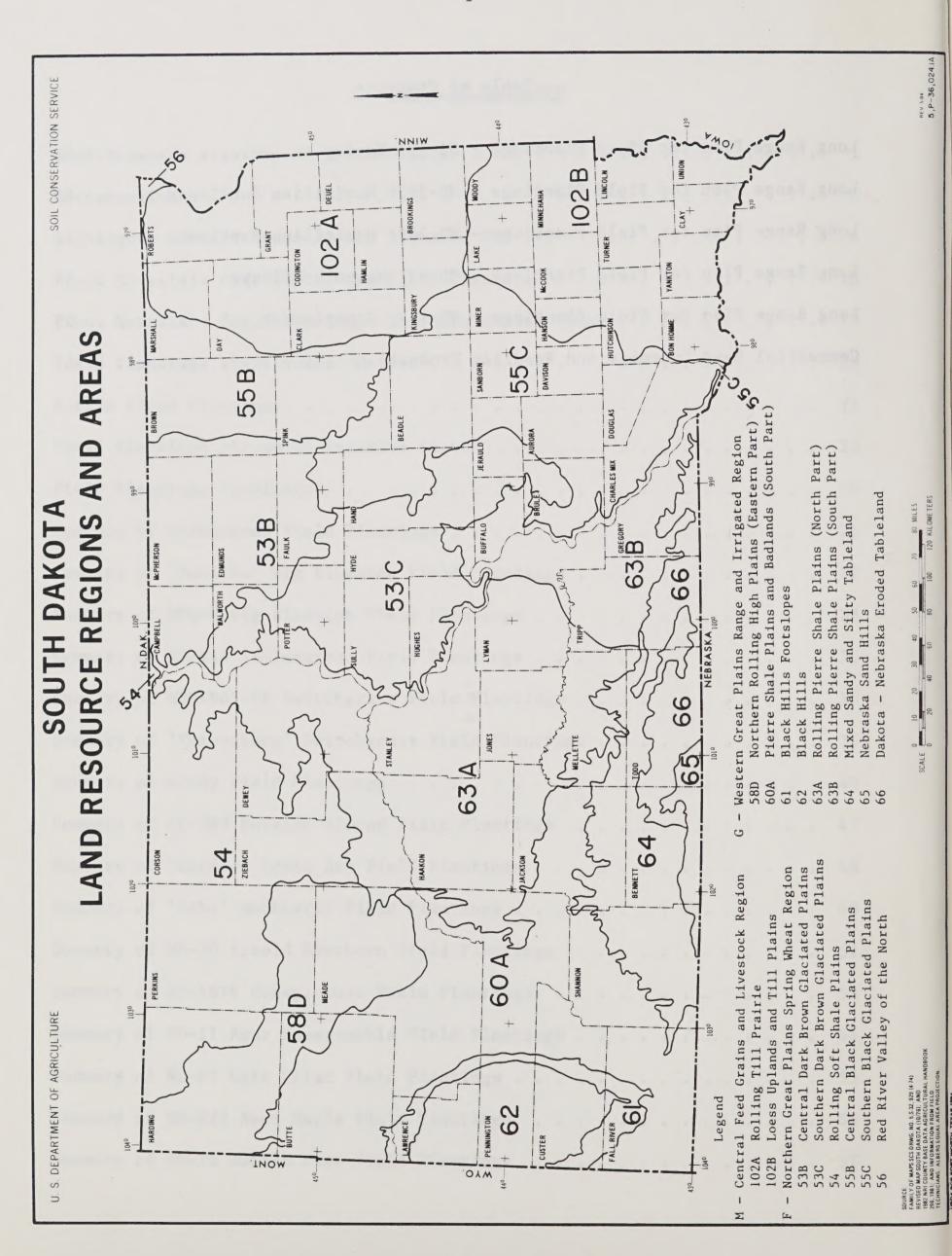
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This report is prepared to summarize the plant materials field and seed increase planting activities in South Dakota.

Field plantings are the final evaluation of plants and techniques that have demonstrated superiority in studies at the PMC or in field evaluation plantings. These plantings will determine potential of the plants under actual use conditions and provide valuable data to document release as a new cultivar. Seed increase plantings are established to provide commercial supplies of conservation plants.

A long range plan has been developed on each plant, based on input by the Plant Materials Specialist and area and state specialists. Field planting long range plans project the number, size, purpose, location, seed need, and evaluations for the accession in final testing. Field planting long range plans are updated each year and consideration is given to other potential field plantings as they arise, if they meet the objectives of the long range plan. The Plant Materials Specialist works with the district conservationists, area and/or state staff in laying the ground work for each planting. (Refer to Long Range Plans and Planting Guides for current high priority needs for field planting sites.)

By definition all herbaceous field plantings will be considered active for three years; tree and shrub plantings for five years and then transferred to the inactive list. Inactive planting records will be maintained indefinitely in the field office file. Follow-up evaluations will be made of selected species and/or accessions at the request of the State PM Committee. All active field plantings were evaluated in 1986 (see list of active plantings). In addition, high priority will be given to evaluate inactive plantings of the following species:

ND-14 harbin pear

ND-283 Russian almond

ND-11 amur honeysuckle

ND-444 indiangrass

ND-629 amur maple

NDG-4 big bluestem

ND-95 prairie sandreed

NDG-965-98 switchgrass

ND-93 green needlegrass

There are several elements of a successful planting:

- 1. Conservation district supervisors are involved in planning, selecting cooperators, monitoring, and publicizing results of the planting.
- 2. The cooperator is fully informed about the objectives of the planting, and understands the culture and management required for a successful planting.
- 3. The planting should be of a size which can be a management unit and part of a planned RMS.
- 4. The planting fits with district objectives and field office goals.
- 5. SCS technicians or specialists provide the systematic follow-up in the establishment, maintenance, and evaluation of the planting.

Cooperation from area and field office personnel has been excellent. Establishment, management, and evaluation of the type and number of field plantings needed to properly test a superior plant selection would be impossible without their help.

Of special interest in this and future reports should be the summary reports that have been generated from data received from field plantings. These are examples of reports that can be generated from the plant materials data base system. The data can be sorted in many other ways. These reports should give field office personnel an opportunity to see how their plantings are performing in comparison with others in the state under a variety of situations. Data for other species or from other states in the PMC service area is available upon request.

### HIGHLIGHTS OF ACTIVITIES AT THE BISMARCK PLANT MATERIALS CENTER

The USDA Plant Materials Center, Bismarck, North Dakota primarily serves the states of North Dakota, South Dakota and Minnesota. Activities are directed toward meeting the needs and priorities set forth in the 3 states long-range programs.

The objectives and functions of the Plant Materials Center are to:

- 1. Identify, select and improve plants to meet the resource conservation needs of the three states.
- 2. Determine cultural techniques for successful propagation and establishment of these plants.
- 3. Assemble and comparatively evaluate materials on and off the center.
- 4. Make comparative field plantings for final testing of promising plants and techniques with Conservation Districts and cooperators.
- 5. Work with Universities, Experiment Stations, and other State and Federal Agencies to cooperatively release improved conservation plants.
- 6. Produce limited quantities of foundation or foundation quality seed.
  This seed is made available to Conservation Districts, State Seed
  certifying organizations, commercial seed growers, or other agencies for
  establishing seed increase fields or seed orchards.
- 7. Encourage Conservation Districts, commercial seed growers, and commercial and state nurseries to produce adapted plant materials and named cultivars.

### TREE AND SHRUB IMPROVEMENT

Within the three states, there is a need to improve the quality and quantity of species available for field and farmstead windbreaks, erosion control on cropland and critical areas, surface mine reclamation, recreational areas, wildlife habitat, and barrier plantings. The objective of the woody improvement program is to assemble, evaluate, increase and release cultivars with improved survival, growth rates, form, winter hardiness, fruit production, disease resistance or other valuable characteristics. Most projects are cooperative with various state, local and federal agencies, tree improvement foresters, scientists, and others with similar objectives.

### Field Evaluation Plantings (multi-species).

The SCS has entered in memorandums or agreements with soil conservation districts, state universities and other state and federal agencies at thirteen locations in North Dakota, South Dakota and Minnesota to provide cooperative field evaluation planting sites with long term land tenure for testing of woody plant materials. These agreements provide sites for initial evaluation of species and cultivars under diverse soil and climatic conditions. They represent major land resource areas and key windbreak suitability groups. Initial evaluations are recorded on individual spaced plants or rows under uniform culture and management conditions.

Project 38I302K - North Dakota Game and Fish Department, McKenzie Slough Game Management Area, McKenzie, North Dakota. Soil series-texture: Savage silty clay loam, MLRA: 053B, WSG: 3; 338 accessions of 126 species.

Project 38I305K - Herman Brothers Farm, Brinsmade, North Dakota. Soil series-texture: Svea-Buse loam, MLRA: 055A, WSG: 1, 8; 153 accessions of 59 species.

Project 38I308K - North Dakota State University, Bottineau Branch, Bottineau, North Dakota. Soil series-texture: Barnes-Aastad Complex, MLRA: 055A, WSG: 3; 130 accessions of 57 species.

Project 38I316K - North Dakota State University, Dickinson, Branch Experiment Station, Dickinson, North Dakota. Soil series-texture: Parshall fine sandy loam, MLRA: 054, WSG: 5; 61 accessions of 35 species.

Project 38I321K - North Dakota State University, Williston Branch Experiment Station, Williston, North Dakota. Soil series-texture: Williams loam, MLRA: 053A, WSG: 3; 28 accessions of 19 species.

Project 38I323K - Morton County Parks, Sweet Briar Recreation Area, Mandan, North Dakota. Soil series-texture: Stady loam, MLRA: 054, WSG: 6; 79 accessions of 63 species.

Project 38I314K - USDI, Fish and Wildlife Service, National Wildlife Refuge, Lake Andes, South Dakota. Soil series-texture: Highmore silt loam, MLRA: 055C, WSG: 3; 84 accessions of 45 species.

Project 38I319K - U.S. Forest Service, Buffalo Gap National Grassland, Cottonwood, South Dakota. Soil series-texture: Kyle silty clay, MLRA: 060A, WSG: 4; 67 accessions of 46 species.

Project 38I315K - South Dakota State University Central Research Station, Highmore, South Dakota. Soil series-texture: Williams silt loam, MLRA: 053C, WSG: 3; 118 accessions of 56 species.

Project 38I318K - University of Minnesota, West Central Experiment Station, Morris, Minnesota. Soil series-texture: Barnes-Buse loam, MLRA: 102A, WSG: 3, 8; 89 accessions of 52 species.

Project 38I320K - University of Minnesota, Northwest Experiment Station, Crookston, Minnesota. Soil series-texture: Bearden silty clay loam, MLRA: 056, WSG: 1; 56 accessions of 38 species.

Project 38I325K - University of Minnesota, Westport, Minnesota, Center Pivot Irrigation System. Soil series-texture: Esterville sandy loam, MLRA: 91, WSG: 7; 21 accessions of 18 species.

Project 38I340K - Minnesota Department of Natural Resources, Rochester, Minnesota. Soil series-texture: Mt. Carrol silt loam, MLRA: 105; 79 accessions of 33 species are planned for establishment.

Current Status: Assembly and evaluation continues for each project. The following accessions show potential for further evaluation and release:

Accession	0	
Number	Genus/species	Origin/source
ND-654 5652T	silver maple Acer saccharinum	Pembina Co., ND
36321	Acer saccharinum	
SD-13 5888T	green ash Fraxinus pennsylvanica	Potter Co., SD
SD-156 5890T	green ash Fraxinus pennsylvanica	Deuel Co., SD
ND-647 5887T	black ash Fraxinus nigra	Res. Sta., Morden, MB, Canada
ND-630 6096T	bur oak Quercus macrocarpa	Barnes Co., ND
Mich-768 12606T	horizontal juniper Juniperus horizontalis	USDA-SCS, PMC, East Lansing, MI
ND-25 5741T	downy hawthorn Crataegus mollis	NDSU, Fargo, ND
PI-370126	willow Salix sp.	Plant Introduction Sta., Ames, IA
ND-21 34900T	Niburnum lentago	USDA, ARS, Mandan, ND
SD-131 6073T	mayday Prunus padus	Moody Co., SD
ND-1029 6086T	chokecherry (yellow fruit) Prunus virginiana	Logan Co., ND
ND-3905 35215T	dwarf artic willow Salix purpurea nana	NDSU, Fargo, ND
ND-3904 35214T	blue fountain willow Salix sp.	NDSU, Fargo, ND
ND-3745 19584T	forsythia Forsythia europea x. ovata	P.I. Sta., Ames, IA
ND-428 5970T	black walnut Juglans nigra	NDSU, Fargo, ND
ND-450 6119T	Redman elderberry Sambucus racemosa	USDA, ARS, Cheyenne, WY

Accession Number	Genus/species	Origin/source
ND-500 5977T	Siberian larch Larix sibirica	Res. Sta., Morden, MB Canada
ND-673 6214T	mountain ash Sorbus aucuparia	Res. Sta., Morden, MB, Canada
PI-323957	black chokeberry Aronia melanocarpa	P.I. Sta., Ames, IA
ND-1134 47203T	hardy plum Prunus sp.	W. Hermann, Miller, SD
ND-3779 29137T	Manchurian poplar Populus sp.	Lee Nursery, Fertile, MN
'Darts Golden' 19601T	dwarf ninebark Physocarpus opulifolius	P.I. Sta., Ames, IA
ND-3744 19577T	Korean barberry Berberis sp.	NDSU, Fargo, ND

Tree and Shrub Seed Source Studies and Assemblies. These studies involve (1) a search for superior trees and shrubs in natural stands, shelterbelts and plantings of known origin; (2) initial evaluation in test plantations on sites selected to represent major land resource areas or seed zones; (3) selection and increase of superior plants (seed increase crossing blocks); (4) advanced studies to determine cultural methods; and (5) final testing in field plantings to further evaluate performance and area of adaptation.

Project 38I015J - Evaluation of chokecherry, (Prunus virginiana). In 1979, SCS field office personnel were instrumental in locating stands and collecting a total of 179 accessions from North Dakota, South Dakota and Minnesota. Without their concerted effort and cooperation such large scale assemblies would not be possible. Seedlings grown at the PMC were transplanted in the spring of 1983 into test plantations near Bismarck and Pierre. Experimental design is a randomized block with some blocks incomplete. Accessions are replicated 5 times with 4 trees per replication. Survival at the North Dakota site was 95% in 1985. One hundred fifty of the original 179 accessions were established. Survival totaled 61% at the South Dakota planting in 1984. In North Dakota, chokecherry growth rates ranged from 33 to 71 cm/year. Heights reached up to 290 cm (9.5 feet) in 1986. Both tree-like and dense suckering forms are apparent. Differences in size and growth rates based on north-south latitudinal origin are not yet visible at this early age. Plans are to innoculate the South Dakota plantation with western-X disease in order to screen the population for resistance to this serious pathogen. Dr. Glenn Peterson, Plant Pathologist, USDA Forest Service, Lincoln, NE, will conduct the innoculation. Survival, vigor, plant height, and crown width were recorded in 1986.

Project 38I012J - Evaluation of silver buffaloberry, (Shepherdia argentea). SCS field personnel collected 134 accessions in North Dakota and South Dakota in 1977-79. Four additional accession were obtained from the Canada Agriculture Research Station, Morden, Manitoba. Seedlings grown at the PMC were transplanted into test plantations near Bismarck and Pierre in the spring of 1983. Experimental design is the same as the chokecherry project. The South Dakota planting has been discontinued because of poor survival. Survival at the North Dakota site was 85% in 1985. Out of the original assembly, 101 accessions are represented. Growth rates averaged 17 to 54 cm/year. Several accessions have exceeded heights of 250 cm (8 feet) in 1986. Survival, vigor, plant height, and crown width were recorded in 1986.

Project 38I013J - Evaluation of hawthorn, (Crateagus sp). SCS field personnel collected seed from 139 accessions in North Dakota and South Dakota in 1976-79. An additional 45 collections of introduced species were obtained from the Canada Agriculture Research Station, Morden, Manitoba. Seedlings were transplanted into test plantations near Bismarck and Pierre in 1983. Experimental design is the same as the chokecherry and buffaloberry projects. From the original assembly, 75 native and 31 introduced accessions were established. Survival at the North Dakota site was 98% in 1985. Unfortunately, because of poor survival the South Dakota planting has been discontinued. Despite moderate deer browse, growth rates in North Dakota averaged 15 cm/year, ranging from 0 to 23. Some accessions have exceeded a height of 125 cm (4.0 feet) in 1986. Introduced species are generally more vigorous at this early stage. Survival, vigor, plant height, crown width, and disease and insect resistance were recorded in 1986.

Project 38I333K - Evaluation of hackberry, (Celtis occidentalis).

GP-13 Technical Committee Cooperative Provenance Test.

Dr. Richard A. Cunningham, Study Coordinator, USDA-ARS, Mandan, ND.

### Objectives of the study:

- 1. Identify the extent and patterns of genetic variability within hackberry growing in ND, SD, MN, NE, IA, MO, KS, OK, AR and Manitoba, Canada.
- 2. To identify the seed sources of hackberry best adapted for planting in ND, SD, MN, NE, IA, MO, KS, OK, and AR.
- 3. To provide a highly variable gene pool that could be utilized for future selections and breeding.

Current Status: The assembly of seed sources is now complete. A total of 293 (4 in 1979, 58 in 1982, 86 in 1983, 98 in 1984, 47 in 1985) field collections were processed at the USDA-SCS, PMC, Bismarck, North Dakota. Clean seed amounts range from 8 to 3,439 grams. The PMC greatly appreciates the positive response and excellent cooperation from most states and SCS personnel assisting with the collections. Only a small number of zones in the study area were inadequately sampled or not collected. Seed lots from fifty of the 55 designated zones encompassing 9 states and the Province of Manitoba, Canada were received.

23 Collections - (2-1979, 14-1982, 0-1983, 0-1984, 7-1985) North Dakota 39 Collections - (2-1979, 6-1982, 4-1983, 15-1984, 12-1985) South Dakota Minnesota 29 Collections - (9-1982, 11-1983, 0-1984, 9-1985) 69 Collections - (14-1982, 31-1983, 16-1984, 8-1985) Nebraska 56 Collections - (11-1982, 17-1983, 24-1984, 4-1985) Kansas 19 Collections - (3-1982, 4-1983, 11-1984, 1-1985) Oklahoma 29 Collections - (0-1982, 19-1983, 9-1984, 1-1985) Iowa 24 Collections - (0-1982, 0-1983, 23-1984, 1-1985) Missouri Arkansas 4 Collections - (4-1985) Canada 1 Collection - (1-1982)

A total of 219 accessions (4 replications each) were planted at the USDA-SCS PMC, Manhattan, Kansas in November, 1986. One year old bareroot seedlings will be raised and shipped to cooperating researchers for establishment in 17 or more test plantations in the central and northern plains. According to germination tests conducted by the ARS, potential production is 193,000 seedlings.

### Selection and increase of superior plants (seed orchards)

Project 38S317K USDI, Fish and Wildlife Service, Apple Creek Township, Burleigh County, North Dakota.

Current status: Forty to fifty plants of each of the following accessions have been established in a spaced plant isolated seed orchard. Seed harvested from this orchard will be provided to nurseries when varieties have been released for commercial production.

'Cardan' green ash
(469226) Fraxinus pennsylvanica

'Midwest' Manchurian crabapple (478000) Malus baccata mandshurica

'Big Horn' skunkbush sumac (483445) Rhus trilobata

'Oahe' hackberry

(476982) <u>Celtis</u> <u>occidentalis</u>

ND-14 Harbin pear

(478004) Pyrus ussuriensis

ND-313 (477999)	red tatarian honeysuckle Lonicera tatarica sibirica
ND-629 (477992)	amur maple Acer ginnala
'Sakakawe (478005)	silver buffaloberry Shepherdia argentea
'Scarlet' (478003)	Mongolian cherry Prunus fruticosa
SD-131 (6073T)	Mayday Prunus padus
ND-177 (5729T)	Cotoneaster integerrima
ND-1134 (47203T)	hardy plum Prunus sp.

### Final Evaluation and Release Schedule - Woody:

		Projected
Accession No.	Species	Year of Release
ND-177 PI-113095	European cotoneaster Cotoneaster integerrima	1986-87
ND-11 PI-477998	amur honeysuckle Lonicera maackii	1987-88
ND-20 5731T	Arnold hawthorn Crataegus arnoldiana	1988-89
ND-629 PI-477992	amur maple Acer ginnala	1988-89
ND-1879 11850T	honeylocust Gleditsia triacanthos	1989-90
ND-83 6228T	late lilac Syringa villosa	1989-90
ND-283 6079T	Russian almond Prunus tenella	1989-90
ND-14 PI-478004	harbin pear Pyrus ussuriensis	1988-89

### GRASS IMPROVEMENT

Native grasses and closely related introduced species are needed for critical area stabilization, erosion control, wildlife habitat, pasture and hayland, rangeland and surface mine revegetation. Adapted cultivars are still needed for many warm and cool season species in the 3 state area. Emphasis of the PMC selection program is placed on erosion control, improving forage quantity and quality, identifying adapted, winter hardy seed sources capable of maintaining high stand density, and increasing seed production and disease resistance. The PMC also cooperates on projects with research agencies such as ARS who employ plant breeders to improve the quality of forages available in the Northern Plains. In addition, evaluations are conducted off center by the PMC in cooperation with state and federal land management agencies.

Field Evaluation Plantings (multi-species): The objective is to determine the adaptation and performance of selected species and varieties of warm season native grasses to be evaluated under uniform culture and management.

Project 38A327J USDI-FWS, Fergus Falls, Minnesota. Thirty-three accessions of warm season species, established in June 1982. The planting plan is a randomized complete block with 3 replications, and an array for demonstrational purposes. Stands-excellent. Data collected included plant density, plant height, weed competition and stand rating. Forage yield was sampled in 1983-1986. Annual production was down in 1985 and 1986, although moisture conditions were good. Soil samples were collected to check fertility levels. Very obvious differences in maturity were noted between the northern and southern sources of each species.

Project 38A328J USDI-FWS, J. Clark Salyer NWR, Upham, North Dakota. Thirty-three accessions of warm season species, established in June 1982. The planting plan is the same as Fergus Falls (see above). Stands-excellent. Data collected included plant density, winter injury, plant height, weed competition and stand rating. Forage yield was sampled in 1983-1986. Forage production has been excellent, especially for the northern cultivars. Winter injury was noted in southern sources of big bluestem, indiangrass, and little bluestem. Southern sources of switchgrass did not seem as affected by winter injury as the other species but delayed maturity was apparent.

Project 38A334J USDI-FWS, Lake Andes, South Dakota. Thirty-two accessions of warm season species, established in June 1983. The planting plan is a randomized complete block with three replications, plus a demonstration array. Stands-good to excellent. During 1983, stand ratings were the only evaluations conducted. Plant density, phenology and forage yield were collected in 1984-1986. Northern sources were generally low in production. Maturity differences were again readily apparent. The plots were burned in 1986. Some of the more southern sources had excellent forage production in 1986. 'Holt', 'Oto', and 'Osage' indiangrass produced 5 ton/acre of oven dry forage. 'Summer' switchgrass was also in that range.

Project 38A337X US Army Corps of Engineers, Ft. Pierre, South Dakota. Thirty-three accessions of warm season species were established May 27-30, 1986. The planting plan is a randomized completed block with three replications, plus a demonstration array. Stand establishment was good-excellent. Data collected in 1986 included stand density, stand rating, plant height, weed competition, and stand emergence. Stand density estimates ranged from 2 to 34 plants/ft. The stands looked good going into winter; however, severe surface cracks on the Promise clay soil may cause some plant loss.

Project 38A336X Sully County, South Dakota. Thirty-two accessions of warm season grasses were established in randomized blocks seeded May 23-24, 1984. First year stands were fair-excellent. Density ratings ranged from 7 to 29 plants/sq. ft. Data collected included density, stand rating, plant height, and weed competition. Annual forage production and phenology were documented in 1985. Moisture conditions were poor in 1985 and forage production was low. Most northern sources were rated poor in performance. Improved moisture conditions in 1986 resulted in excellent production. Some of the switchgrass entries produced more than 4 ton/ac of oven dry forage.

Project 38A335X Minnesota Dept. of Natural Resources, Rochester, Minnesota. Thirty-seven accessions of warm season grass were established in randomized blocks seeded June 4-6, 1985. Eastern gamagrass and caucasian bluestem were also included in the evaluation. Density ratings, plant height and weed contamination were documented August 20-21, 1985. Stands were rated fair to excellent. Weed competition was heavy on some plots. Data collected in 1986 included stand index, height, and weed competition. Density estimates ranged from 2 to 24 plants/ft. Forage production will be sampled in 1987.

Major Assemblies of Native Grasses. Since 1977 the PMC has conducted four large scale assemblies of native grasses with the assistance of SCS field office personnel. These individuals located natural (native) stands then collected and shipped the vegetative subsamples. Nursery maintenance and evaluation work will be or has been performed by PMC personnel for 2 projects (little bluestem and big bluestem), while 2 others (western wheatgrass and blue grama) are handled by ARS plant breeders.

Project 38I338G. Assembly and evaluation of big bluestem, (Andropogon gerardii).

Objective: Assemble, evaluate, develop, and release cooperatively and adapted variety and/or varieties of big bluestem for conservation use in the following MLRA's: 56, 57, 88, 90, 91, 93, 102A, 102B, 103, 104, and 105.

Collection: October 15-18, 1985

Transplant Date: May 27 - June 13, 1986

Status: A total of 326 accessions were collected in Minnesota and eastern South Dakota. Individual plantlets were separated, transplanted into conetainers, and grown in the PMC greenhouse from March to May, 1986. More than 4,000 individual plants were transplanted to an initial evaluation nursery at the ARS Station at Mandan, ND. Survival was excellent. The nursery will be irrigated in 1987 to simulate the higher rainfall conditions where the plants originated. Data collected in 1987 will include survival, vigor, disease, plant size, and leafiness.

Project 38I010H Evaluation of western wheatgrass, Agropyron smithii

Project 38I011H Evaluation of blue grama, Bouteloua gracilis

Cooperators: The USDA, Soil Conservation Service (SCS), Plant Materials Center, Bismarck, ND, in cooperation with USDA-Agricultural Research Service (ARS), Northern Great Plains Research Center, Mandan, ND, and the Office of Surface Mines (OSM). Dr. Reed Barker, Plant Geneticist, is study coordinator.

Assembly: The initial phase involved the assembly and planting of vegetative field collections of western wheatgrass and blue grama from the western and Northern Great Plains Land Resource Areas 53, 54, 58, 60, 61, and 63 in North and South Dakota.

Current status: The assemblies of western wheatgrass and blue grama were completed during 1977. The projects were designed to systematically sample the ecotypic variation that occurs in these two species in western North and South Dakota. A total of 10,350 vegetative samples were collected by the SCS during September 1977. Five samples of each species were collected on 549 sites in South Dakota and on 486 sites in North Dakota.

### Western wheatgrass

Initial evaluation notes were recorded by USDA-ARS on all plants in 1979. One thousand plants of western wheatgrass were selected for further evaluation and were transplanted to an advanced evaluation nursery in 1980. No data was recorded in 1981. In 1982 data collection on the selected plants included length of spread, density of spread and coloration. In 1983 a further 20% selection was made and seed collected from these plants will be planted in the greenhouse and evaluated for seedling vigor. Four hundred superior plants times 5 replications for a 2,000 total of plants were established vegetatively in the spring of 1984. This was the third cycle of recurrent selection used to identify superior plants. In 1985, data was collected from this third generation on the same agronomic traits recorded during earlier generations. Seed from the third cycle selection will be made available for testing in 1987.

Blue grama

Initial evaluations have been made on the assembly in 1981-82 and inflorescences from selected plants were collected for further study of apomixis. ARS personnel are developing a technique to determine degree of apomixis. No further progress has been reported by ARS in 1984. The PMC assisted with maintenance of the nursery in 1984 and 1985. In 1985, an initial selection of superior plants (top 10%) was made by Dr. Reed Barker (USDA-ARS). Vegetative plugs were removed with the assistance of the PMC. ARS personnel transplanted this material into cone-tainers in the greenhouse for outplanting in 1986.

### Selection and Initial Seed Increase

Project 38I016H Initial increase of little bluestem Schizachyrium scoparium.

Cooperators: The USDA, Soil Conservation Service (SCS), Plant Materials Center, Bismarck, ND, in cooperation with the Office of Surface Mining (OSM).

Assembly: The initial phase involved the assembly and processing of vegetative field collections of little bluestem representative of the following Major Land Resource Areas in North Dakota, South Dakota and Minnesota: 53B, 53C, 54, 55A, 55B, 55C, 56, 57, 58C, 58D, 60, 61, 62, 63, 64, 66, 90, 91, 102A, 102B, 103, 104 and 105.

Current Status: Many of you in the field and area offices were involved in the initial assembly of little bluestem in ND, SD, and MN in 1979. The project has progressed well on schedule. More than 7,000 individual plants were evaluated from 1980-83. Superior plants were selected in 1983 and transplanted into isolated crossing blocks in June 1984. Plants were selected based on vigor, leafiness, disease resistance, plant size, and maturity. Because of the ecotypic variation and maturity differences, the selected plants were placed into 4 groups closely associated with the divisions in Major Land Resource Areas. These 4 regions are: 1. eastern North Dakota and north Central South Dakota, (ND-4114, a composite of 58 plants), 2. Western Dakotas (ND-4115, 68 plants), 3. eastern South Dakota and southern Minnesota (ND-4116, 76 plants), and 4. central and northeast Minnesota (ND-4117, 14 plants). Four separate germplasm blocks have been established. In 1985 a 5th group of short, early maturing plants were selected and established in an isolated crossing block. This composite will be tested for use as low maintenance cover in recreational area developments, transportation corridors and critical areas. Also in 1985, with the assistance of Dr. Jim Karns, Research Animal Scientist, USDA-ARS, Mandan, ND, 14 out of the total 68 plants from group 2 were sub-selected on the basis of higher protein content and digestability. These individuals (Group 6) will be increased and established in another crossing block in 1987.

Besides little bluestem, the following grasses were selected in 1984 and are now being increased in small breeder blocks or initial increase fields:

Project 38AllIS - Initial seed increase of ND-3743 switchgrass. Established at the USDA-ARS Station, Mandan in 1982. Tall leafy, accession, maturing earlier than NDG-965-98. Collected by D. Strum, U.S. Fish and Wildlife Service, in 1980. Collected from a field of Nebraska-28 switchgrass.

Project 38All3S - Initial seed increase of ND-2100 European dunegrass. Strongly rhizomatous, vigorous grass with potential for stabilizing sandy soils, blowouts and other critical areas. Breeder block planted in 1984. Field expanded in 1985. Introduced from Europe.

Project 38Al18S - Initial seed increase of ND-1105, sand bluestem. Uniform, open, spreading, sand bluestem with potential for native pasture on sandy sites. Pronounced pale blue color with villous (hairy) racemes. Breeder block established at PMC in 1985.

### Final Evaluation and Release Schedule - Grasses:

Accession No.	Species	Projected Year of Release
Forestburg (SD-149) PI-478001	switchgrass Panicum virgatum	1986-87
Bonilla (SD-27) PI-315658	big bluestem Andropogon gerardii	1986-87
Tomahawk (ND-444) PI-478006	indiangrass Sorghastrum nutans	1987-88
NDG-4 PI-477994	big bluestem Andropogon gerardii	1987-88
NDG-965-98 PI-478002	switchgrass Panicum virgatum	1987-88
ND-95 PI-477995	prairie sandreed Calimovilfa longifoli	1992 <b>-</b> 93 <u>a</u>

### FORB IMPROVEMENT

Forbs are an integral part of the native plant community in the Northern Great Plains. Identified seed sources or cultivars are needed for the revegetation of surface mined lands, wildlife habitat as well as the stabilization and beautification of disturbed areas, recreational developments and transportation corridors. Native forb and legumes from the Dakotas and Minnesota were assembled and evaluated from 1977 through 1983. Selected plants have since been transplanted or grown from seed in order to establish initial seed increase fields.

### Selection and Initial Seed Increase

Project 38A109S - Initial seed increase of ND-3959 Maximilian sunflower.

- Project 38AllOS Initial seed increase of ND-3651 Maximilian sunflower.

  Selections were made in 1983 from an original assembly of 52 sources.

  Two accessions of Maximilian sunflower were established in separate fields at the PMC in 1983 and expanded in 1984. ND-3959 is a composite of 5 plants that mature earlier than ND-3651. This perennial warm season forb is best suited to moist sites and deeper soils. Maximilian sunflower is highly palatable and of good forage quality. The seeds are heavily utilized by song birds and other wildlife.
- Project 38A123S Initial seed increase of 47233T stiff sunflower. A composite of several accessions from North and South Dakota. This perennial warm season forb is adapted to dry, shallow soils and is highly palatable. One row was vegetatively established in 1986 for seed increase.
- Project 38Al19S Initial seed increase of ND-1481 purple prairie clover.

  Originated from Lyman County, South Dakota. This perennial legume provides high quality forage as part of a range seeding mixture.

  Vegetative transplanting for seed increases will be done in 1987.

### CULTURAL EVALUATIONS/SPECIAL PROJECTS

Evaluation of cultural production and establishment techniques are necessary for those species and cultivars where knowledge of effective propagation and increase methods are lacking. Demonstration plantings can serve this purpose, while simultaneously fulfilling an integeral part of the information program. Informal trials or special studies on grass seeding techniques, grafting or rooting, seed stratification, and equipment application or modification are typical endeavors.

Project 38A409K - Evaluation and treatment of dormancy in bareroot seedlings of hackberry. Bareroot seedlings propagated by standard nursery practices have exhibited a high or highly variable degree of dormancy once outplanted. This apparent dormancy prevents seedlings from breaking bud in the normal (natural) amount of time, thereby increasing plant stress and reducing winter survival. To address this problem, the PMC is cooperating with Dr. Rich Cunningham (ARS-Mandan) on an experiment to compare various lifting, storage and conditioning treatments. Time of lifting (spring vs. fall) type of storage ("heel-in" bed vs. cooler), and sweating process (peat vs. shingletoe at 2 different temperatures) will be examined.

Current Status: In 1986 there was very little difference among the various treatments, they all appeared to break dormancy well. Data is not complete at this time. The experiment will be repeated in 1987 with some modifications in treatments.

### GRASS SEED PRODUCTION

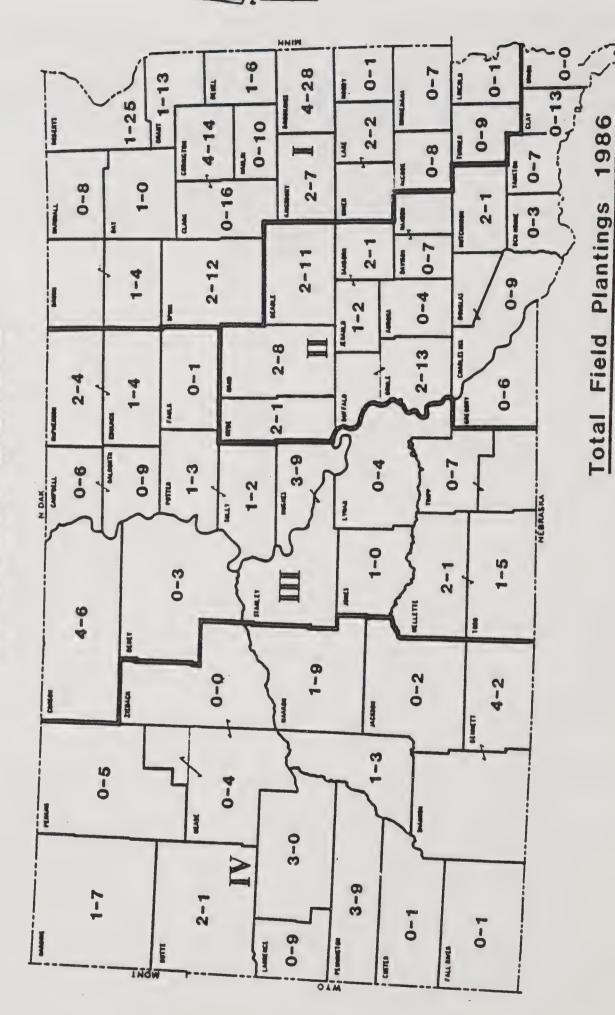
It is a primary objective and responsibility of the Plant Materials Center to grow and maintain a supply of foundation or foundation quality grass seed for officially and informally released varieties. This seed is made available to commercial seed producers for establishment of certified seed increase fields. In several cases, breeder seed must also be produced in carefully maintained and isolated breeder blocks. Additional seed increase fields of selected materials are established and maintained in order to provide a seed supply for comparative variety trails, demonstration plantings, other PMC's, research agencies and SCS District Cooperators who establish field plantings.

Plant Materials Distributed in South Dakota for Field Plantings in 1986.

A total of 1084 PLS pounds of grass and forb seed, 1980 seedlings were used to make 19 new field plantings. 622 PLS pounds of grass seed and 2 pounds of tree seed were provided to nurserymen and seed growers for commercial seed increase.

Area	Grass Seed (PLS pounds)	Seedlings	Tree Seed (pounds)
1	385	730	2
2	399	619	
3	300	275	
4		356	
Total	1084	1980	2

# Plant Materials Field Plantings in South Dakota



(first number - active plantings)
(second number - inactive plantings)

Inactive - 371

Active - 63

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995 Field 503 Office Coopera	503 Coopera	tor	502 Field 1/ Planting No	011 Cultivar	001 PT No.	012 Name	512 Purnose 2/
21	IIIce	Cooperator	Flanting No	Cultivar	PI No.	Name	Purpose 2/
	Watertown	M. Maag	SD86004	Cardan	469226	green ash	SDIN
	Watertown	L. McClung	SD86005	Cardan	469226	green ash	SDIN
Codington	Watertown	L. Bergh	SD86006	Cardan	469226	green ash	SDIN
	Milbank	T. Rethke	SD86013	MDN-759	116252	pubescent wheatgrass	SDIN
	Milbank	T. Rethke	SD86013	Pierre	476980	sideoats grama	SDIN
	Salem	J. Collignon	SD86007	Pierre	476980	sideoats grama	STAB
	Chamberlain	SDGF&P	SD86010	SD-149	478001	switchgrass	WLDF
	Vermillion	D. Druin	SD86016	ND-264	434443	alkali sacaton	SACT
	Vermillion	B. Orr	SD86017	ND-264	434443	alkali sacaton	SACT
	Vermillion	D. Emmick	SD86018	ND-264	434443	alkali sacaton	SACT
	Vermillion	D. Emmick	SD86019	ND-264	434443	alkali sacaton	SACT
	Menno	E. Knodel	SD86003	SD-149	478001	switchgrass	WLDF
	Menno	C. Zeeb	SD86008	SD-149	478001	switchgrass	WLDF
	Campbell Herreid	J. Wienjtes	SD86011	Cardan	469226	green ash	WIND
	Kennebec	C. Halvorson	SD86015	NDG-965-98	478002	switchgrass	EACW
	Kennebec	C. Halvorson	SD86015	Sodar	421021	streambank wheatgrass	EACW 02
		C. Halvorson	SD86015	Pierre	476980	sideoats grama	EACW 1
	Kennebec	C. Halvorson	SD86015	NDG-4	477994	big bluestem	EACW
	Leola	R. Bieber	SD86014	Prairieland	16800T	altai wildrye	SPEC
	Mission	B. Dunn	SD86002	SD-149	478001	switchgrass	SDIN
	Mission	B. Dunn	SD86002	SD-27	315658	big bluestem	SDIN
	Selby	L. Schanzenbach	SD86012	Cardan	469226	green ash	WIND

First two numbers of the field planting number indicate the year of establishment.

### Purpose 2/

SDIN - Seed increase

WLDF - Wildlife

PAST - Pasture

WIND - Windbreak

RNGE - Range

SPEC - Special

IRR - Irrigation

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512. Purpose	SDIN SDIN SDIN SDIN SDIN	SDIN		SDIN SDIN WIND WIND WIND WIND WIND IRR IRR IRR IRR IRR IRR IRR IRR IRR IR
012 Name	hackberry (MDN-12003) honeylocust amur maple honeylocust crabapple	green ash hackberry green ash		green ash switchgrass honeylocust honeylocust switchgrass honeylocust hackberry (MDN-12003) switchgrass arnold hawthorn honeylocust hackberry (MDN-12003) Mongolian cherry (ND-3) European cotoneaster amur maple amur maple hackberry (MDN-12003) arnold hawthorn honeylocust hackberry (MDN-12003) European cotoneaster amur maple amur maple amur maple amur maple amur maple hackberry (MDN-12003) arnold hawthorn honeylocust hackberry (MDN-12003)
001 PI No.	476982 11850T 477992 11850T 478000	469226	5729T 478003	469226 478001 11850T 11850T 478001 478001 478001 478001 476982 477992 477992 477992 477992 477992 477992 477992 477992 477992 477992 477992
011 Cultivar	Oahe ND-1879 ND-629 ND-1879 Midwest	Cardan Oahe Cardan	ND-177 Scarlet	Cardan SD-149 ND-1879 ND-1879 ND-1879 SD-149 SD-149 SD-149 SD-149 SD-149 ND-20 ND-20 ND-20 ND-177 ND-629 Oahe ND-20 ND-1879 Oahe Scarlet ND-177 ND-629 Oahe ND-177 ND-629
502 Field 1/ Planting No	SD85007 SD85008 SD85009 SD85009 SD83008	SD83008 SD83008 SD84001	SD85015 SD85015	SD83001 SD85025 SD85021 SD85027 SD85027 SD85022 SD85003 SD85003 SD85003 SD85003 SD85003 SD85003 SD85003 SD85003 SD85003 SD85004 SD85028 SD85028 SD85028 SD85028 SD85028 SD85028
503 Cooperator	Stime, M. Selken, M. Olson, A. Olson, A. Big Sioux	Nursery Big Sloux Nursery Big Sloux Nursery Ostrander, E.	•	Nursery Jaeger, A. Claudill, F. Wagner, S Flowers, C. Lake, D. Sargent, B. Peterman, C. Groen, D. Fischer, D. SDSU Exp. Sta.
995 Field Office	Brookings Brookings Brookings Watertown	Watertown Watertown	Watertown	Clear Lake Milbank Redfield Huron Chamberlain Miller Miller Menno Highmore
710 County	Brookings Brookings Brookings Codington	Codington	Codington	Deuel Grant Spink Beadle Brule Hand Hutchinson Hyde Hyde Hyde Hyde Hyde Hyde Hyde Hyde
506 MLRA	102A 102A 102A 102A 102A	102A 102A	102A 102A	102A 102A 102A 55B 55C 53C 53C 53C 53C 53C 53C 53C 53C 53C
711 Admin Area	01 01 01	01	01 01	01 02 02 02 03 03 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05

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512 Purpose	WIND WIND	UNIW UNIW UNIW	UNIW WIND UNIW	UNIM	SPEC WLDF WLDF	WIND WIND SDIN	SPEC SPEC SPEC	SPEC SPEC WIND	WIND WIND
012 Name	honeylocust honeylocust amur maple	hackberry (MDN-12003) honeylocust honeylocust	hackberry (MDN-12003) amur maple	hackberry (MDN-12003) honeylocust	green ash indiangrass switchgrass	amur maple honeylocust pubescent wheatgrass		poplar cottonwood hackberry (MDN-12003)	hackberry (MDN-12003) amur maple honeylocust
001 PI No.	11850T 11850T 477992	476982 11850T 11850T	476982 477992 477992	476982 11850T	469226 478006 478001	477992 11850T 116252	19602T 432347 434233	19603T 16288T 476982	476982 477992 11850T
011 Cultivar	ND-1879 ND-1879 ND-629	Oahe ND-1879 ND-1879	0ahe ND-629 ND-629	Oahe ND-1879	Cardan ND-444 SD-149	ND-629 ND-1879 MDN-759	Noreaster Imperial Robusta	Northwest Siouxland Oahe	Oahe ND-629 ND-1879
502 Field 1/ Planting No	SD85016 SD85017 SD85018	SD85018 SD85018 SD85019	SD85019 SD85019 SD85020	SD85020 SD85020	SD83012 SD85001 SD85002	SD85014 SD85013 SD85026	SD83017 SD83017 SD83017	SD83017 SD83017 SD85011	SD85012 SD85012 SD85012
503 Cooperator	Vilhauer, L. Traxinger, M Jacobs, S.	Jacobs, S. Jacobs, S. Kerstein, J.	Kerstein, J. Kerstein, J. Petik. J.		Sully Co. SCD USDI-FWS USDI-FWS	Fanning, P. Fenton Farms Farmers Feed		R. Cole Arbor R. Cole Arbor USDI-FS	Kvanvig, K. Kvanvig, K. Kvanvig, K. & Seed
995 Field Office	Leola Leola McIntosh	McIntosh McIntosh McIntosh	McIntosh McIntosh McIntosh	McIntosh McIntosh	Onida Martin Martin	Martin Belle Fourche Sturgis	Rapid City Rapid City Rapid City	Rapid City Rapid City Wall	Bison Bison Bison
710 County	McPherson McPherson McPherson	McPherson McPherson McPherson	McPherson McPherson McPherson	McPherson	Sully Bennett Bennett	Bennett Butte Meade	Pennington Pennington Pennington	Pennington Pennington E.	Perkins Perkins Perkins
506 MLRA	53B 53B 53B	53B 53B 53B	53B 53B 53B	53B 53B	53C 64 64	64 60A 60A	61 61 61	61 61 63A	54 54 54
711 Admin Area	03 03	03	03	03	03 04 04	04 04 04	04	04	04

First two numbers of the field planting number indicate the year of establishment.

### 2/ Purpose

SDIN - Seed increase WLDF - Wildlife
PAST - Pasture WIND - Windbreak
RNGE - Range SPEC - Special
IRR - Irrigation

Field plantings placed in inactive status in South Dakota as of December 31, 1986.

512 Purpose	WIND	MIND	PAST	SDIN	SDIN	MIND	MIND	SDIN
012 <u>Name</u>	honeylocust	honeylocust	switchgrass	switchgrass	sideoats	honeylocust	harbin pear	big bluestem
001 PI No.	5909T	5909T	478001	478001	476980	5909T	478004	315658
011 Cultivar	ND-1863	ND-1863	SD-149	SD-149	Pierre	ND-1863	ND-14	SD-27
502 Field 1/ Planting No	SD82001	SD82004	SD84005	SD84004	SD84002	SD82005	SD82007	SD84003
503 Cooperator	Podoll, L.	Olson, F.	Wolf, T.	Krog, R.	Baumberger, H.	Fuhrman, N	Roghair, L.	L7 Ranch
995 Field Office	Aberdeen	Webster	Madison	Chamberlain	McIntosh	Ipswich	Murdo	Mission
710 County	Brown	Day	Lake	Buffalo	Corson	Edmunds	Jones	Todd
506 MLRA	055B	102A	102B	63	54	53B	63	99
711 Admin Area	01	01	01	02	03	03	03	03

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First two numbers of the field planting number indicate the year of establishment.

### Purpose 2/

SDIN - Seed increase

WLDF - Wildlife PAST - Pasture

WIND - Windbreak

RNGE - Range

SPEC - Special

Field plantings terminated in South Dakota as of December 31, 1986.

711			995		502				
Admin	909	710	Field	503	Field 1/	011	001	012	512
Area	MLRA	County	Office	Cooperator	Planting No	Cultivar	PI No.	Name	Purpose 2/
04	9	Bennett	Martin	Livermont, W.	SD85010	Oahe	476982	hackberry	WIND

First two numbers of the field planting number indicate the year of establishment.

2/ Purpose

SDIN - Seed increase WLDF - Wildlife

PAST - Pasture

WIND - Windbreak

RNGE - Range

SPEC - Special IRR - Irrigation

(Adaptation to site)
(Status: active, inactive, terminated)

(Plant vigor)
(Weed competition)

833 VIG ( 821 WDC ( 910 ADPT 713 STAT

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
801 YR RC (Year of record)
531 AMT ACRE (Number of acres)
523 SD RATE (Seeding rate)
830 STD VIS (Visual rating of stand or plants per square yard)

RATING SYSTEM 1=EXCELLENT 3=600D 5=FAIR 7=P00R 9=VERY POOR

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RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P003

A SJAMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA 10/27/1987

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RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00R

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n9 711 505 503	ADM CAT AREA NUM COOPERATO	3 85 E	85 C HALVORSON	89 R BIEBER	89 R BIEBER	IL 3 95 P HURST	IL 3 95 P HURST	IL 3 95 D HURST	L 3 109 SISSFTON HIGH SCHOOL	3 109 SISSETON HIGH CLADOL	L 3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	S 115 FICHED®S CROSS ST	L 3 115 FISHER'S GROVE ST PK	L 3 115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	L 3 115 FISHERS GROVE ST PK	L 3 115 FISHERS GROVE ST DK	L 3 115 FISHERS GROVE OF DE	L 3 115 FISHERS GROVE ST PK	L 3 115 FISHERS GROVE ST PK	L 3 115 FISHERS GROVE ST PK	L 3 119 D TRUMBLE	L 3 119 D TRUMBLE	L 3 119 D TRUMBIF	L 3 119 D TRUMBLE	121 W FERGUSON	TO TEL MANCH	00 5=FAIR 7=P00R 9=VERY P00
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n9 711 505 503	SOIL AOM CNT IES TEXT AREA NUM COOPERATO	3 85 E	C 3 85 C HALVORSON	RASSNA 3 89 R BIEBER	RASSNA 3 89 R BIEBER	-GLENBUR SIL 3 95 P HURST	-GLENBUR SIL 3 95 P HURST	-GLENBUR SIL 3 95 D HURST	L 3 109 SISSFTON HIGH SCHOOL	3 109 SISSETON HIGH CLADOL	L 3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	3 109 SISSETON HIGH SCHOOL	S 115 FICHED®S CROSS ST	L 3 115 FISHER'S GROVE ST PK	L 3 115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	L 3 115 FISHERS GROVE ST PK	L 3 115 FISHERS GROVE ST DK	L 3 115 FISHERS GROVE OF DE	L 3 115 FISHERS GROVE ST PK	L 3 115 FISHERS GROVE ST PK	SIL 3 115 FISHERS GROVE ST PK	N SIL 3 119 D TRUMBLE	N SIL 3 119 D TRUMBLE	N SIL 3 119 D TRUMBLE	N SIL 3 119 D TRUMBLE	C 3 121 W FERGUSON	TOTAL STANCH	NI 3=6000 5=FAIR 7=P00R 9=VERY P00
n9 711 505 503	SOIL ADM CNT TEXT AREA NUM COOPERATO	3 85 C HAI VORON	C 3 85 C HALVORSON	NI-SRASSNA 3 89 R BIEBER	NT-SRASSNA 3 89 R BIEBER	HELL-GLENBUR SIL 3 95 P HURST	HELL-GLENBUR SIL 3 95 P HURST	HELL-GLENBUR SIL 3 95 D HIRST	ER CL 3 109 SISSETON HIGH SCHOOL	ER CL 3 109 SISSFION HIGH CLADOL	ER CL 3 109 SISSETON HIGH SCHOOL	ER CL 3 109 SISSETON HIGH SCHOOL	ER CL 3 109 SISSETON HIGH SCHOOL	ER CI 3 109 SISSEION HIGH SCHOOL	ER CL 3 109 SISSETON HIGH SCHOOL	ER CL 3 109 SISSETON HIGH SCHOOL	ER CL 3 109 SISSETON HIGH SCHOOL	LLE SIL 3 115 FISHED S CROSS OF SELECTION SIL 3 115 FISHED S CROSS OF	LLE SIL 3 115 FISHER®S GROVE ST PK	LLE SIL 3 115 FISHER*S GROVE ST PK	LLE SIL 3 115 FISHER®S GROVE ST PK	LLE SIL 3 115 FICHERS GROVE ST PK	LLE SIL 3 115 FISHERS GROVE OF DA	LLE SIL 3 115 FISHERS GROVE OF DE	-LE SIL 3 115 FISHERS GROVE ST PK	LE SIL S 115 FISHERS GROVE ST PK	HOVER SIL 3 115 FISHERS GROVE ST PK	-HOVEN SIL 3 119 D TRUMBLE	-HOVEN SIL 3 119 D TRUMBLE	-HOVEN SIL 3 119 D TRUMBLE	HOVEN SIL 3 119 0 TRUMBLE	SOAD SIC 3 121 W FERGUSON	JEI EL RANCH	I 3=6000 5=FAIR 7=P00R 9=VERY P00
n9 711 505 503	ERIES TEXT AREA NUM COOPERATO	PAL C 3 85 C HALVORSON	PAL C 3 85 C HALVORSON	RYANT-SRASSNA 3 89 R BIEBER	RYANT-SRASSNA 3 89 R BIEBER	ITCHELL-GLENBUR SIL 3 95 P HURST	ITCHELL-GLENBUR SIL 3 95 P HURST	ITCHELL-GLENBUR SIL 3 95 D HURST	EEVER CL 3 109 SISSFTON HIGH SCHOOL	EEVER CL 3 109 SISSETON HIGH CLADOL	EEVER CL 3 109 SISSETON HIGH SCHOOL	CL 3 109 SISSETON HIGH SCHOOL	FVER CL 3 109 SISSETON HIGH SCHOOL	TEVER CL 3 109 SISSETON HIGH SCHOOL	CL 3 109 SISSETON HIGH SCHOOL	EVER CL 3 109 SISSETON HIGH SCHOOL	EVER CL 3 109 SISSETON HIGH SCHOOL	OBELLE SIL 3 115 FICHED®S CROSS OF SILES	DELLE SIL 3 115 FISHER'S GROVE ST PK	OPELLE SIL 3 115 FISHER*S GROVE ST PK	DELLE SIL 3 115 FISHER*S GROVE ST PK	DELLE SIL 3 115 FICHERS GROVE ST PK	DELLE SIL 3 115 FISHERS GROVE OF DA	DELLE SIL 3 115 FISHERS GROVE OF DE	OELLE SIL 3 115 FISHERS GROVE ST PK	DELLE SIL SIIS FISHERS GROVE ST PK	AND HOWERS GROVE ST PK	AR-HOVEN SIL 3 119 D TRUMBLE	AR-HOVEN SIL 3 119 D TRIMBLE	AR-HOVEN SIL 3 119 D TRUMBLE	AR-HOVEN SIL 3 119 D TRUMBLE	URD SIC 3 121 W FERGUSON	TOT C HANCH	ELLENT 3=6000 S=FAIR 7=P00R 9=VERY P00
07 509 711 505 503	OIL SERIES TEXT AREA NUM COOPERATO	63 OPAL C 3 85 C HAI VORSONI	3 OPAL C 3 85 C HALVORSON	38 BRYANT-3RASSNA 3 89 R BIEBER	38 BRYANT-SRASSNA 3 89 R BIEBER	34 MITCHELL-GLENBUR SIL 3 95 P HURST	63A MITCHELL-GLENBUR SIL 3 95 P HURST	634 MITCHELL-GLENBUR SIL 3 95 D HURST	2A PEEVER CL 3 109 SISSETON HIGH SCHOOL	02A PEEVER CL 3 109 SISSFION HIGH CLADOL	2A PEEVER CL 3 109 SISSETON HIGH SCHOOL	24 PEEVER CL 3 109 SISSETON HIGH SCHOOL	24 PEFVER	24 PEEVER CL 3 109 SISSETON HIGH SCHOOL	02A PEEVER CL 3 109 SISSTIN HIGH SCHOOL	02A PEEVER CL 3 109 SISSETON HIGH SCHOOL	DEA PEEVER CL 3 109 SISSETON HIGH SCHOOL	558 LADELLE SIL 3 115 FISHER® CROWN R.	SSB LADELLE SIL 3 115 FISHER®S GROVE ST PK	SSIL 3 115 FISHER*S GROVE ST PK	558 LADELLE SIL 3 115 FISHER®S GROVE ST PK	558 LADELLE SIL 3 115 FICHERS GROVE ST PK	558 LADELLE SIL 3 115 FISHERS GROVE ST DA	558 LADELLE SIL 3 115 FISHERS GROVE OF DE	SSB LADELLE SIL 3 115 FISHERS GROVE ST PK	SIL S 115 FISHERS GROVE ST PK	SAC ACAD-HOWEN SIL 3 115 FISHERS GROVE ST PK	33C AGAR-HOVEN STE 3 119 D TRUMBLE	33C AGAR-HOVEN SIL 3 119 D TRUMBLE	33C AGAR-HOVEN SIL 3 119 D TRUMRIF	3 A SAR-HOVEN SIL 3 119 D TRUMBLE	SE MILLBORD SIC 3 121 W FERGUSON  6 VETOL FSI 3 121 K PAMEL	TOTAL TOTAL	TEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00
06 507 509 711 505 503	LRA SOIL SERIES TEXT AREA NUM COOPERATO	D 063 OPAL C 3 85 C HAI VORSON	D 063 OPAL C 3 85 C HALVORSON	U 0538 BRYANT-GRASSNA 3 89 R BIEBER	U USSB BRYANT-SRASSNA 3 89 R BIEBER	D 063A MITCHELL-GLENBUR SIL 3 95 P HURST	D 063A MITCHELL-GLENBUR SIL 3 95 P HURST	D 663A MITCHELL-GLENBUR SIL 3 95 D HURST	D 102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	O 102A PEEVER CL 3 109 SISSETON HIGH CLADOL	102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	1024 PEEVER CL 3 109 SISSETON HIGH SCHOOL	1024 PFFVFR	1 102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	102A PEEVER CL 3 109 SISSFION HIGH SCHOOL	102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	102A PFEVER CL 3 109 SISSETON HIGH SCHOOL	0558 LADELLE SIL 3 115 FICHER CROWN OF SILVER	0558 LADELLE SIL 3 115 FISHER®S GROVE ST PK	USSB LADELLE SIL 3 115 FISHER*S GROVE ST PK	0558 LADELLE SIL 3 115 FISHER*S GROVE ST PK	0558 LADELLE SIL 3 115 FICHERS GROVE ST PK	0558 LADELLE SIL 3 115 FISHERS GROVE ST PA	0558 LADELLE SIL 3 115 FISHFRS GROVE OF DE	0558 LADELLE SIL 3 115 FISHERS GROVE ST PK	USSB LADELLE SIL SIIS FISHERS GROVE ST PK	ASSOCIATION SIL 3 115 FISHERS GROVE ST PK	053C AGAR-HOVEN STIL 3 119 D TRUMBLE	053C AGAR-HOVEN SIL 3 119 D TRUMBLE	053C AGAR-HOVEN SIL 3 119 D TRUMBLE	353C AGAR-HOVEN SIL 3 119 O TRUMBLE	165 WETOL FSI 3 121 W FERGUSON FS VETOL	TOTAL STANCH	SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00
04 506 507 509 711 505 503	T MLRA SOIL SERIES TEXT AREA NUM COOPERATO	D 063 OPAL C 3 85 C HAI VORSON	D 063 OPAL C 3 85 C HALVORSON	U 0538 BRYANT-GRASSNA 3 89 R BIEBER	U USSB BRYANT-SRASSNA 3 89 R BIEBER	D 063A MITCHELL-GLENBUR SIL 3 95 P HURST	D 063A MITCHELL-GLENBUR SIL 3 95 P HURST	D 663A MITCHELL-GLENBUR SIL 3 95 D HURST	D 102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	O 102A PEEVER CL 3 109 SISSETON HIGH CLADOL	102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	1024 PEEVER CL 3 109 SISSETON HIGH SCHOOL	1024 PFFVFR	1 102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	102A PEEVER CL 3 109 SISSFION HIGH SCHOOL	102A PEEVER CL 3 109 SISSETON HIGH SCHOOL	102A PFEVER CL 3 109 SISSETON HIGH SCHOOL	0558 LADELLE SIL 3 115 FICHER CROWN OF SILVER	0558 LADELLE SIL 3 115 FISHER®S GROVE ST PK	USSB LADELLE SIL 3 115 FISHER*S GROVE ST PK	0558 LADELLE SIL 3 115 FISHER*S GROVE ST PK	0558 LADELLE SIL 3 115 FICHERS GROVE ST PK	0558 LADELLE SIL 3 115 FISHERS GROVE ST PA	0558 LADELLE SIL 3 115 FISHFRS GROVE OF DE	0558 LADELLE SIL 3 115 FISHERS GROVE ST PK	USSB LADELLE SIL SIIS FISHERS GROVE ST PK	ASSOCIATION SIL 3 115 FISHERS GROVE ST PK	053C AGAR-HOVEN STIL 3 119 D TRUMBLE	053C AGAR-HOVEN SIL 3 119 D TRUMBLE	053C AGAR-HOVEN SIL 3 119 D TRUMBLE	353C AGAR-HOVEN SIL 3 119 O TRUMBLE	165 VETOL FSI 3 121 W FERGUSON	TOTAL PROPERTY.	YSTEM 1=EXCELLENT 3=6000 5=FAIR 7=POOR 9=VERY POO

A SJYMARY OF HERBACEOUS FILL) PLANTINGS IN SOUTH DAKOTA 10/27/1987

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RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY POOR

3 T A																	-	3	2	-	
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801 YR RC		8	*82	8	8		*85		$\infty$	*82	8	$\infty$	8		$\omega$	*85	8	*87	8	*86	8
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0001 ACC NUM	M	3	2	80	<b>-</b> ,	ROVE ST PK	ROVE ST PK	ROVE ST P4	ROVE ST PK.	ROVE ST PK	ROVE ST PK	ROVE ST PK	ROVE ST P							7 RANCH)	7 RANC
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3 001 OPERATOR NUM			UNDAL	UNDAL	UNDAL	SHER'S GROVE ST PK	SHER'S GROVE ST PK	SHER'S GROVE ST PK	SHER*S GROVE ST PK.	SHER'S' GROVE ST PK	SHER * S GROVE ST PK	SHER'S GROVE ST PK	SHER'S GROVE ST P	RANCH	RANCH	7 RANC	RANC	RANCH	ANCH	UNN (L-7 RANCH)	N CL-7 RANC
S 503 001 T ACC M COOPERATOR NUM	SUNDAL	1 I SUNDAL	1 I SUNDAL	1 I SUNDAL	1 I SUNDAL	5 FISHER . S GROVE ST PK	5 FISHER'S GROVE ST PK	5 FISHER'S GROVE ST PK	5 FISHER*S GROVE ST PK.	5 FISHER'S' GROVE ST PK	5 FISHER S GROVE ST PK	3 FISHER'S GROVE ST PK	5 FISHER'S GROVE ST P	1 L 7 RANCH	1 L7 RANCH	1 L 7 RANC	1 L7 RANC	1 L7 RANCH	1 L 7 RANCH	1 B DUNN (L-7 RANCH)	1 3 DUNN (L-7 RANC
SOS SOS DOS ACC ACC A VUM COOPERATOR NUM		1 I SUNDAL	11 I SUNDAL	11 I SUNDAL	11 I SUNDAL	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER*S GROVE ST PK.	115 FISHER'S' GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST P	121 L 7 RANCH	121 L7 RANCH	121 L 7 RANC	121 L7 RANC	121 L7 RANCH	121 L 7 RANCH	121 B DUNN (L-7 RANCH)	121 3 DUNN (L-7 RANC
711 505 503 AJM CVI AREA VUM COOPERATOR NUM	I I I SAVAAL	1 11 I SUNDAL	1 11 I SUNDAL	1 11 I SUNDAL	1 11 I SUNDAL	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER*S GROVE ST PK.	115 FISHER'S' GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST PK	115 FISHER'S GROVE ST P	121 L 7 RANCH	121 L7 RANCH	121 L 7 RANC	121 L7 RANC	121 L7 RANCH	121 L 7 RANCH	121 B DUNN (L-7 RANCH)	121 3 DUNN (L-7 RANC
11 505 503 DM CVT REA VUM COOPERATOR NUM	TCI I SUNDAL	11 I SUNDAL	ICL 1 11 I SUNDAL	ICL 1 11 I SUNDAL	ICE 1 11 I SUNDAL	IL I 115 FISHER'S GROVE ST PK	IL 115 FISHER'S GROVE ST PK	IL 1115 FISHER'S GROVE ST PK	IL 115 FISHER*S GROVE ST PK.	IL 3 115 FISHER'S' GROVE ST PK	IL 3 115 FISHER*S GROVE ST PK	IL 3 115 FISHER'S GROVE ST PK	IL 3 115 FISHER*S GROVE ST P	SL 3 121 L 7 RANCH	SL 3 121 L7 RANCH	SL 3 121 L 7 RANC	SL 3 121 L7 RANC	SL 3 121 L7 RANCH	SL 3 121 L 7 RANCH	SL 3 121 B DUNN (L-7 RANCH)	SL 3 121 3 DUNN (L-7 RANC
509 711 505 503 SOIL AJM CUT TEXT AREA NUM COOPERATOR NUM	TCI I SUNDAL	ICL 1 11 I SUNDAL	ICL 1 11 I SUNDAL	ICL 1 11 I SUNDAL	ICE 1 11 I SUNDAL	IL I 115 FISHER'S GROVE ST PK	IL 115 FISHER'S GROVE ST PK	IL 1115 FISHER'S GROVE ST PK	IL 115 FISHER*S GROVE ST PK.	IL 3 115 FISHER'S' GROVE ST PK	IL 3 115 FISHER*S GROVE ST PK	IL 3 115 FISHER'S GROVE ST PK	IL 3 115 FISHER*S GROVE ST P	SL 3 121 L 7 RANCH	SL 3 121 L7 RANCH	SL 3 121 L 7 RANC	SL 3 121 L7 RANC	SL 3 121 L7 RANCH	SL 3 121 L 7 RANCH	SL 3 121 B DUNN (L-7 RANCH)	SL 3 121 3 DUNN (L-7 RANC
SOIL ADM CUT SIES TEXT AREA NUM COOPERATOR NUM	TCI I SUNDAL	ICL 1 11 I SUNDAL	ICL 1 11 I SUNDAL	ICL 1 11 I SUNDAL	ICE 1 11 I SUNDAL	SIL 1 115 FISHER*S GROVE ST PK	SIL 1115 FISHER®S GROVE ST PK	SIL 1115 FISHER®S GROVE ST PK	SIL 1115 FISHER*S GROVE ST PK.	SIL 3 115 FISHER*S' GROVE ST PK	SIL 3 115 FISHER*S GROVE ST PK	SIL 3 115 FISHER®S GROVE ST PK	SIL 3 115 FISHER®S GROVE ST P	SL 3 121 L 7 RANCH	SL 3 121 L7 RANCH	SL 3 121 L 7 RANC	SL 3 121 L7 RANC	SL 3 121 L7 RANCH	SL 3 121 L 7 RANCH	SL 3 121 B DUNN (L-7 RANCH)	SL 3 121 3 DUNN (L-7 RANC
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06 507 509 711 505 503 001 ACC SOIL AJM CUT ACC LRA SOIL SERIES TEXT AREA NUM COOPERATOR NUM	O 1024 VOLSA	DZA VOLGA SICL 1 11 I SUVDAL	D 102A VOLSA SICL 1 11 I SUNDAL	D 1024 VOL3A SICL 1 11 I SUNDAL	D 102A VOLSA SICE 1 11 I SUNDAL	D 0558 LAUELLE SIL 1 115 FISHER*S GROVE ST PK	D 055B LADELLE SIL 1 115 FISHER*S GROVE ST PK	D 0558 LADELLE SIL 1 115 FISHER*S GROVE ST PK	0 0558 LADELLE SIL 1115 FISHER*S GROVE ST PK.	D 0558 LADELLE SIL 3 115 FISHER*S' GROVE ST PK	D 0558 LADELLE SIL 3 115 FISHER*S GROVE ST PK	D 0559 LADELLE SIL 3 115 FISHER*S GROVE ST PK	D 0558 LADELLE SIL 3 115 FISHER*S GROVE ST P	D 066 VETAL FSL 3 121 L 7 RANCH	D 066 VETOL FSL 3 121 L7 RANCH	D 066 VETAL FSL 3 121 L 7 RANC	D 066 VETOL FSL 3 121 L7 RANC	D USG VETOL FSL 3 121 L7 RANCH	D 066 VETAL FSL 3 121 L 7 RANCH	O 066 VETAL FSL 3 121 B DUNN (L-7 RANCH)	D 066 VETAL FSL 3 121 3 DUNN (L-7 RANC

RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=POOR 9=VERY POOR

Legend:
505 CNT NUM (FIPS County Code)
505 CNT NUM (FIPS County Code)
507 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
801 YR RC (Year of record)
531 AMT ACRE (Number of acres)
523 SD RATE (Seeding rate)
830 STD VIS (Visual rating of stand or plants per square yard)
831 VIG (Plant vigor)
821 WDC (Weed competition)
910 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated)

A SUMMARY DE VDG-4 BIG BLUESTEM FIELD PLANTINGS IN SOUTH DAKOTA 11/12/1987

910 713	DPT STA		3 1	3 1	1		pund	3 1	A N	3 4		3 1	1 1
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5 3 1 A M I	· 0		0	8.0					1.7	1.7	1.0	1.0	1.0
801 YR	R C		*84	*85		*85		*85	*86	*86		*83	*85
517	PJRP		NIOS	NICS	OEMO	DEMO	NIOS	NICS	A C	EACH	NIGS	IO	NICS
502 =1FLD	LNT NO		8070015	5070015	5080010	80010					_	080010	SD80010
002 PLANT	. w		NG	ANGE	S	ANGE	ANGE	5	() <b>Z</b>	NG	S	ANGE	ANGE
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549 711 505 503 501: ADM CNT	XT AREA N		SIL 1 D JESSEN	SIL 1 D JESSEN	1 109 SISSETON HIGH SC	CL 1 109 SISSETON HIGH SCHOOL	SIL 1 115 D JESSEN	SIL 1115 D JESSEN	5 8	C 3 85 C HALVORSON	3 109 SISSETON HIGH SCH	CL 3 109 SISSETON HIGH SCHOOL	CL 3 109 SISSETON HIGH SCHOOL
>04 506 50 <b>7</b>	T MLRA SOIL SERIES		SD 055 TETONKA	SD 055 TETONKA	SD 102A PEEVER	SD 102A PEEVER	U55 T	SD 055 TETONKA	SD 063 OPAL	063 DP	SD 102A PEEVER	SD 102A PEEVER	SD 102A PEEVER
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DAKOT	
SOUTH	
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PLANTINGS	
FIELD	
VASH	1387
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NUTANS	11
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INDIANGRASS	
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A SUMMARY	

EXT AREA NUM COOPERATOR  NUMBER SYMBOL PLNT NO PURP RC ACRE RATE VII  1 11 A SWENSON  11 11 A SWENSON  11 11 A SWENSON  12 1 11 A SWENSON  13 1 11 A SWENSON  14 1 11 A SWENSON  15 1 11 A SWENSON  16 1 11 A SWENSON  17 1 11 A SWENSON  17 1 11 A SWENSON  18 1 11 A SWENSON  18 1 11 A SWENSON  19 1 11 A SWENSON  19 1 11 A SWENSON  19 1 11 A SWENSON  10 1 11 A SWENSON  11 1 A SWENSON  11 1 A SWENSON  12 1 11 A SWENSON  13 1 11 A SWENSON  14 1 11 A SWENSON  15 1 11 A SWENSON  16 1 11 A SWENSON  17 1 11 A SWENSON  18 1 11 A SWENSON  18 1 11 A SWENSON  19 1 11 A SWENSON  19 1 11 A SWENSON  10 1 1 A SWENSON  10 1 1 A SWENSON  11 1 A SWENSON  11 1 A SWENSON  12 1 A SWENSON  13 1 A SWENSON  14 1 A SWENSON  15 1 A SWENSON  16 1 A SWENSON  17 1 A SWENSON  18 1 A SWENSON  19 1 A SWENSON  19 1 A SWENSON  10 1 A SWENSON  10 1 A SWENSON  11 A SWENSON  11 A SWENSON  11 A SWENSON  11 A SWENSON  12 A SWENSON  13 1 A SWENSON  14 A SWENSON  15 A SWENSON  16 A SWENSON  17 A SWENSON  18 A SWENSON  18 A SWENSON  19 A SWENSON  19 A SWENSON  10 A SWENSON  10 A SWENSON  10 A SWENSON  11 A SWENSON  11 A SWENSON  12 A SWENSON  13 A SWENSON  14 A SWENSON  15 A SWENSON  16 A SWENSON  17 A SWENSON  18 A SWENSON  18 A SWENSON  19 A SWENSON  19 A SWENSON  10 A SWENSON  11 A SWENSON  12 A SWENSON  13 A WHITLY  14 A SWENSON  15 A WHITLY  17 A SWENSON  18 A SWENSON  18 A SWENSON  19 A SWENSON  19 A SWENSETON HIGH SCHOOL SONUS	504	908 4	507	509	7111 5	05 503		0 4			302 FIELD	517	901 3	31	23 8	30 83. TD	3 821	910	713
102A POINSEIT SIL   11 S SENSON	-	2	SOIL SERIE	لباد	3 E A	UM CO	PERATU	2	UMBE	· >-	L N I	$\propto$	ن :	CRE	LJ H	S VI	G	AD	-
102A POINTEET  SIL   11 A SEENSON   478006 SONUE SOTSONO PAST 88 3.0 6.0 9 4 5 5 5 1 1 1 A SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 9.0 5 1 1 1 3 SEENSON   478006 SONUE SOTSONO PAST 88 3.0 10.0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	SON LOGE SALENHV	p	-	U	OTIC		3434	TIN O	07200	V	00		•	~	3		_
102A POINSETT   STL   111A SWENSON   478006 SONUE ST75005 PAST 88   3.0   4.0   7   5   1   5   1   1   1   1   1   1   1	0	0.2	POINSETT			. 4	WENSO		3434	ONO	07500	AS	8	0.		4	3 3		_
102A POINSETT   SIL   11 A SJENSON   478006 SONU2 SD75005 PAST *80   5.0 4.0   7   5   1   5   1   1   1   1   1   1   1	QS	0.2	POIVSE	-	7	1 A	WENSO		7800	0 4 0	07500	AS							_
102A POLYSETT   SIL   111 A SULNSON   478006 SONUZ SOT5005 PAST *82 3.0 4.0 5 5 5 5 1 1 5 1 1	SD	0.2	POINSE	~	1	1 A	CSNIA		7800	ONO	07500	SA	9						-
102A POINSETT   SIL   1   A SVENSON   478006 SONU2   S075005 PAST 88   3.0   4.0   5   5   5   5   1   1   A SVENSON   478006 SONU2   S075005 PAST 88   3.0   4.0   5   5   5   5   5   1   1   A SVENSON   478006 SONU2   S075005 PAST 88   3.0   4.0   5   5   5   5   5   5   1   1   A SVENSON   478006 SONU2   S075005 PAST 88   3.0   4.0   5   5   5   5   5   5   5   5   5	SD	0.2	POINSE	-	_	1 A	WENSO		7800	0 4 0	07500	AS	8						
102A POINSETT   STL   11 A SALENSON   478006 SONUZ   SO75005 PAST   88   3.0   4.0   3   5   5   5   5   5   5   5   5   5	SD	0.2	POINSE	1000	-	1 A	WENSO		7800	ONO	00510	AS	8		•				I
1024 POIVSETT   STENSON   478006 SONU2 SOT5005 PAST *85   3 5 1	SD	0 2	POINSE	$\vdash$	-1	1 A	WENSO		7800	ONO	07500	AS	8						7
1024 POINSETT   SIL   1   1   1   1   1   1   1   1   1	30	02	POIVSE	-	-	1 A	MENSO		7800	0 40	07500	AS	8						<b>y</b>
11   11   11   11   11   11   11   1	30	02	POINSE	$\vdash$	-	1 A	HENSO		7800	DNO	01500	AS	8						_
11   11   11   11   11   11   11   1	SD	55	LADELL	-	1 1	FI C	HER 'S 'SROVE	PK	7830	DNO	08200	10							turning.
10.558   LADELLE   SIL   1115 FISHER'S GROVE ST PK   478006 SONU2   SD82003 WLDF   *84   3.0   10.0   6   3   3   3   1   1   1   1   1   1   1	SD	55	LADELL	Pered	1 1	5 FI	HER'S GROVE	-	7800	ONO	08200	0.7	*82	0.					bood
115 FISHER'S GROVE ST PK   478006   50NU2   50B2003   LUDF   +84   5.0   10.0   5   5   5   5   5   5   5   5   5	SD	55	LADELL	$\rightarrow$	1 1	15 FI	HER & S GROVE	-	7800	ONO	08200	07	*83	0.					_
115 FISHER'S GROVE ST PK   478006 SONU2   5082003   WLDF   *85   3.0   10.0   8   3   5   1   1   1   1   1   1   1   1   1	SD	55	LADELL	-	1 1	15 FI	HER . S GROVE	_	7800	ONO	08200	07	*84	0.					_
115 FISHER*S GROVE ST PK   478006 SONU2   SOB2014   WLDF   *85   SSETON   ST PK   478006 SONU2   SOB2014   WLDF   *85   SSETON   ST PK   478006 SONU2   SOB2014   WLDF   *85   SSETON   ST PK   478006 SONU2   SOB6010   WLDF   *85   SSETON   SSETO	SD	55	LADELL	Immed	1 1	15 FI	HER . S GROVE		7800	ONO	08200	10	*85	0.					
SIL   115 FISHER*S GROVE ST PK   478006   SONU2   SOB2014   WLDF   *85   SIL   115 FISHER*S GROVE ST PK   478006   SONU2   SOB6010   WLDF   *85   SIL   115 FISHER*S GROVE ST PK   478006   SONU2   SOB6010   WLDF   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOB6010   WLDF   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO025   FORG   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO025   FORG   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO025   FORG   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO025   FORG   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO025   FORG   *85   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO010   SOIN   *84   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO010   SOIN   *84   SIL   2   15 SD GAME*FISH*PARKS   478006   SONU2   SOFO010   SOIN   *84   SIL   3   15   15   15   15   15   15   15	SD	55	LADELL	-		15 FI	HER . S GROVE	-	7800	DNO	08200	07	*85						p-ref
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RATING SYSTEM 1=EXCELLENT 3=600D 5=FAIR 7=P00R 9=VERY P00R

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
801 YR RC (Year of record)
531 AMT ACRE (Number of acres)
532 SD RATE (Seeding rate)
830 STD VIS (Visual rating of stand or plants per square yard)
830 STD VIS (Weed competition)
821 WDC (Weed competition)
910 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated)

A SUMMARY DE VDG-365-99 SAITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA 11/09/1987

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503	COOPERATOR		WILKINSON BROS	WILKINSON BROS.	WILKINSON BROS.	WILKINSON BROS.	WILKINSON BROS	WILKINSON BROS.	HARTFORD BEACH S	HARTFORD BEACH S	HARTFORD BEACH S	A ENRIGHT	C HALVORSON	C HALVORSON
505 503 CVT	UM COOPERATO		BRJ	CAB NOSNIALI	BRO	ILKINSON BRO	BRJ	ILKINSON BRO	BEACH	RIFORD BEACH	BEACH	41 A ENRIGHT	HALVORSO	HALVORSO
1C -	A VUM COOPERATO		BRJ	CAB NOSNIYTIM.	WILKINSON BRO	WILKINSON BRO	WILKINSON BRO	CAB NOSNITAIN	9 HARTFORD BEACH	9 HARTFORD BEACH	HARTFORD BEACH	1 A	5 C HALVORSO	5 C HALVORSO
711 505 A 2 Y CA	A VUM COOPERATO		BRJ	CAB NOSNIYTIM.	WILKINSON BRO	WILKINSON BRO	WILKINSON BRO	CAB NOSNITAIN	9 HARTFORD BEACH	1 109 HARTFORD BEACH	HARTFORD BEACH	1 A	3 85 C HALVORSO	5 C HALVORSO
711 505 A 2 Y CA	AREA NUM COOPERATO		BRJ	CAB NOSNIYTIM.	WILKINSON BRO	1 77 WILKINSON BRO	WILKINSON BRO	CAB NOSNITAIN	SL 1 109 HARTFORD BEACH	1 109 HARTFORD BEACH	1 109 HARTFORD BEACH	1 A	3 85 C HALVORSO	PAL C 3 85 C HALVORSO
505 117 509 711 505 INS MCA :108	S TEXT AREA NUM COOPERATO		EK L 1 77 WILKINSON BRJ	EK L 1 77 WILKINSON BRO	HOUDEK L 1 77 WILKINSON BRD	HOUDEK L 1 77 WILKINSON BRO	2A 40UJEK L 1 77 WILKINSON BRJ	2 HOUSEK L 1 77 WILKINSON BRD	2A SL 1 109 HARTFORD BEACH	2A SL 1 109 HARTFORD BEACH	2A SL 1 109 HARTFORD BEACH	3 41 A	3 3PAL C 3 85 C HALVORSO	3 OPAL C 3 85 C HALVORSO
7 509 711 505 SOIL MAN CAL	SOIL SERIES TEXT AREA NUM COOPERATO		A HOUDER L 1 77 WILKINSON BRD	102 +0UDEK L 1 77 WILKINSON BRO	102 HOUDEK L 1 77 WILKINSON BRD	102 HOUDEK L 1 77 WILKINSON BRO	102A 40UJEK L 1 77 WILKINSON BRJ	102 HOUSEK L 1 77 WILKINSON BRD	102A SL 1 109 HARTFORD BEACH	2A SL 1 109 HARTFORD BEACH	102A SL 1 109 HARTFORD BEACH	054 3 41 A	063 3PAL C 3 85 C HALVORSO	063 OPAL C 3 85 C HALVORSO

9=VERY POD3 5=FAIR 7=POOR RATING SYSTEM 1=EXCELLENT 3=6000

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DAKOTA	
SOUTH	
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PLANTINGS	11/09/1987
FIELD	
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SUMMARY	
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NAT COOPERATOR N	UNDAL	ISUNDA	OTIO	S C0110	1 S COTTO	1 \$ 00110	1 K WHEELE	1 X WASELE	X WHEFLE	1 K WHEELE	1 J CHRISTOPHERSO	1 J CHRISTOPHERSO	1 J CHRISTOPHERSO	1 A SWENSON	1 A SWENSO	1 A SWENSO	1 A SWENSO	1 A SWENSO	1 E BAL	1 E BAL	1 E BAL	1 E BAL	1 E BALO	1 L OLESE	1 L OLESE	1 L OLESE	1 L OLESE	9 J DAILE	JOATLE	J J DAILE
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9=VERY POOR S=FAIR 7=POOR RATING SYSTEM 1=EXCELLENT 3=6000

833 VIG (Plant vigor)
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A SUMMARY OF \*FORESTBURG\* SWITCHBRASS FIELD PLANTINGS IN SOUTH DAKOTA

713 STAT			-	_	-	<b></b>	<b>-</b>			_	ı	ď	•	_	<b>—</b>	_	_	1		_			<b>—</b>	_		<b>—</b>	<b>—</b>	1-04	<b>—</b>	-	_	_	-	-	_	<b>-</b>	
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RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00R

SOUTH DAKOTA	
2	
PLANTINGS IN SOUTH	11/09/1987
FIELD	
SWITCHGRASS	
OF *FORESTBURG* SWITCHSAASS	
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A SUMMARY	

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1   4   R   R   R   R   R   R   R   R   R	00 711 005 01L 404 041	EXI AKEA NUM	IL 1115 F	IL 1115 FIS	11 2 15 0 1	1L 2 15 SD 6	IL 2 15 SD 3A	ICL 2 17 8 K30	ICL 2 17 R KRO	10L 2 17 4 NAU	L 2 53 12 12 13 1	2 67 D GROE	2 67 0 GRO	2 57 D FISC	2 67 E KNOD	57 E KND	2 67 C ZEE	L L 3 45 A UEI	L L S 45 A WEI	L L S 45 A WILD	CL 3 53 4 1411	L 3 55 W WHI	L. 3 53 4 WHIT	L 3 109 SISSET	L S 109 SISSET	3 109 SISSE	1L 3 115 FISHE	IL 3 115 FISHE	IL 3 115 FISHER
	500 711 505 SOIL 404 CVI	OIL SEALES TEXT AREA NOW	ADELLE SIL 1115 F	ADELLE SIL I 115 FIS TGAMORE ANNA SIL 2 18 0 1	JUST S JIS NAME STOREST	SIL 2 15 SD G	SIL 2 15 SD 3A	ENDTE-DVREE SICL 2 17 8 KRO	ENDIE-DVREE SICL 2 17 R KRO	AKOMA CL 2 53 L LAI	AKOMA CL 2 53 W WHI	LARNO L 2 67 D GROE	LARNO L 2 67 D GRO	LARNO L 2 57 D FISC	2 67 E KNOD	57 E KND	2 67 C ZEE	ILLIAMS-BOWBELL L 3 45 A WEI	ILLIAMS BOWRELL L 3 45 A WEI	TELIAMS BOURDELL L 3 45 A WEID	AKOMA COMPETE C 3 43 A MATT	AKOMA CL 3 55 W WHI	AKOMA CL. 3 53 2 WHIT	ELVER CL 3 109 SISSET	FEVEN CL 3 109 SISSET	EEVER CL 3 109 SISSE	ADELLE SIL 3 115 FISHE	ADELLE SIL 3 115 FISHE	ADELLE SIL 3 115 FISHER
	505 711 505 SOIL 474 CVI	LEA SOIL SEALES LEXI ALEA NOW	558 LADELLE SIL 1 115 F 558 LADELLE SIL 1 115 F	558 LADELLE SIL 1 115 FIS 56 HIGHMORF LAVA SIL 3 15 0 1	TO STOCK TO THE STOCK OF THE ST	550 SIL 2 15 SD 0	SIL 2 15 SD 3A	638 JENDTE-DVREE SICL 2 17 R KRO	638 WENDTE-DVREE SICL 2 17 R KRO	LAKOMA CL 253 LUAI	LAKOMA CL 2 53 W WHI	028 CLARNO L 2 67 D GROE	UZB CLANNO L 2 67 0 GRO	028 CLARNO L 2 57 D FISC	2 67 E KNOD	2 57 E KNO	028 57 C 2EE	538 WILLIAMS-BOWBELL L 3 45 A WEI	538 WILLIAMS BOWRELL L 3 95 A WEI	558 WILLIAMS BUNBELL L 5 45 A WEID	OZA LAKOMA COMUCELE S 53 J MHTT	02A LAKOMA CL 3 55 W WHI	OZA LAKOMA CL. 3 53 W WHIT	UZA PELVER CL 3 109 SISSET	OZA PERVER	UZA PEEVER CL 3 109 SISSE 02A PEEVER Cl 3 109 SISSE	558 LADELLE SIL 3 115 FISHE	558 LADELLE SIL 3 115 FISHE	558 LADELLE SIL 3 115 FISHER

RATING SYSTEM LEEXCELLENT SEGOOD SEFAIR TEPOOR 9=VERY POOR

A SUMMARY DE \*FORESTBURG\* SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA 11/09/1987

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711 505 503 AJM CNT		115 FISHERS GROVE ST P	115 FISHERS GROV	121 8 DUNN (L-7 RANCH)	121 3 DUNN (L-7 RANC	129 M STIEGELMEIER	7 JSDI, FUS, LACREEK R	7 USDI, FWS, LACREER RE	7 8	17 R KRJ	17 R KR3	SEN T 68	55 T NES	121 EAGLE VALLEY R	121 EAGLE VALLEY RANG	129 M STIEGELMEIE	129 M STIEGELMEI	9 M STIEGELMEIE
1 505 50 M CNT	EXT AREA NUM COOPERATO	115 FISHERS GROVE ST P	IL 3 115 FISHERS GROVE ST P	SL 3 121 3 DUNN (L-7 RANCH)	SL 3 121 3 DUNN (L-7 RANC	1L 3 129 M STIEGELMEIER	4 7 JSDI, FUS, LACREEK RE	4 7 USDIOFUSOLACIEC RE	4 17 R KRD	CL 4 17 R KRJ	CL 4 17 R KR3	L 4 55 T NES	55 T NES	9 121 EAGLE VALLEY RANC	4 121 EAGLE VALLEY RANG	4 129 M STIEGELMETE	129 M STIEGELMEIE	4 129 % STIEGELMEIE
506 507 509 711 505 50 SOIL AJM CNT	EXT AREA NUM COOPERATO	558 LADELLE SIL 3 115 FISHERS GROVE ST P	SH LADELLE SIL 3 115 FISHERS GROVE ST P	66 VETAL FSL 3 121 B DUNN (L-7 RANCH)	66 VETAL FSL 3 121 3 DUNN (L-7 RANC	63A RABER SIL 3 129 M STIEGELMEIER	64 RICHFIELD 4 7 JSDI+FWS+LACREEK RE	64 RICHFIELD 4 7 USDI+FWS+LACREEK RE	WENDIE-DUREE SICL 4 17 8 KRD	638 WENDIE-DVREE SICL 4 17 R KRD	638 WENDIE-DVREE SICL 4 17 R KRD	65 HIGHMORE SIL 4 55 T NES	53C HIGHMORE-EAKIN 9 55 T NES	64 KEOTA-4ADOKA SIL 9 121 EAGLE VALLEY RANG	64 KEOTA-KADOKA SIL 4 121 EAGLE VALLEY RANG	63A RABER SIL 4 129 M STIEGELMETE	63A RABER SIL 4 129 M STIEGELMEIE	634 RABER SIL 4 129 4 STIEGELMEIE
06 507 509 711 505 50 SOIL AJM CNT	LRA SOIL SERIES TEXT AREA NUM COOPERATO	0558 LADELLE SIL 3 115 FISHERS GROVE ST P	OSSB LADELLE SIL 3 115 FISHERS GROVE ST P	066 VETAL FSL 3 121 B DUNN (L-7 RANCH)	066 VETAL FSL 3 121 3 DUVN (L-7 RANC	063A RABER SIL 3 129 M STIEGELMEIER	064 RICHFIELD 4 7 JSDI,FWS,LACREEK RE	064 RICHFIELD 4 7 USDI,FWS,LACREEK RE	638 WENDTE-DVREE SICL 4 17 R KRD	0638 WENDIE-DVREE SICL 4 17 R KRD	0638 WENDIE-DVREE SICL 4 17 R KRD	U65 HIGHMORE SIL 4 55 T NES	053C HIGHMORE-EAKIN 4 55 T NES	064 KEOTA-KADOKA SIL 9 121 EAGLE VALLEY RANC	064 KEOTA-KADOKA SIL 4 121 EAGLE VALLEY RANG	063A RABER SIL 4 129 M STIEGELMETE	063A RABER SIL 4 129 M STIEGELMEIE	0634 RABER SIL 4 129 4 STIEGELMEIE

RATING SYSTEM 1=EXCELLENT 3=6000 S=FAIR 7=P00R 9=VERY P00R

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CS 1	2A K	RANZBUR	SIL 1	11		CKMA	01260	RVI	00690	10	8	25	5			-		
5.0	2A K	RANZBUR	-	1 1		CKMA	00605	S &	00020	07	$\infty$	10				1		
SD 1	2	RANZBUR	1	11		CKMA	00555	CSA	00170	07	$\infty$	0 0	1	0.		1		
50 1	N X	RANZBUR	-	11		CKMA	00556	<u>الله</u>	07100	10	$\infty$	25	5			1		
SU 1	2 ×	RANZBUR	$\blacksquare$	11		UKEN	00573	RA	07100	10	$\infty$	20	6			1		
50 1	Y	RANZBUR	-	11		CKMA	96500	nc I	07100	07	8	10	0			1		
SJ 1	2 3	RANZBUR	-	11		CKMA	00536	7	07100	LD	8	5	6	.5		1		
50 1	2	RANZBUR	-	11	8	CKMA	00597	IND	01100	0.7	8	10	6			1		
S 1	2 x	RANZBUR	-		В	CKMA	01997	UNI	07100	10	8	10	0			1		
SD 1	2 X	RANZBUR	-			CKMA	00605	RS	07100	5	8	65	2		· 3	1		
S.J. 1	2	RANZBUR	-		8	CKMA	00608	RVI	07100	07	8	25	5			-		
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Q	53B W	ITLI			8	KELHEI	47698	EOC	06800	Z	8	4 0	0			3		
Q	538 W	ILLIA	. 1		B	¥	00607	RIE	00890	Z	$\infty$	83				<b>M</b>		
0	38 W	ILLIA			8	KELHEI	01250	RVI	06800	IN	8	54	6	9		2		
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RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)

552 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
525 WDC (Weed competition)
627 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated)

STAT

713

A SJMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA 11/04/1987

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517	PJRP							N.	Z	GNIM	N		Z	Z	10	NIOS	10	0.1	Z	2	0.1	10	10				Z	DNIM			DNIM			BEAU		NIND	0
۵	0	0	0	$\leftarrow$	$\leftarrow$	$\blacksquare$	-	0	+4	-	2	2	2	N	0	0	0	0	0	0	0	0	$\rightarrow$	$\leftarrow$	~	-	-	-	-	-	0	0	0	0	600	0	0
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A SJYMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA 11/04/1987

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## A SUMMARY OF NO-285 (BRISSORD) RUSSIAN ALMOND FIELD PLANTINGS IN SOUTH DAKOTA 11/16/1987

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	SI MERA SUIL SERIES		SD 0538 WILLIAM	SD 102 KRANZBURS
		de de de	40	41

3=6000 5=FAIR /=P003 9=VERY P003 RATING SYSTEM 1=EXCELLENT

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)
552 FOL HT (Height at end of season)
553 FOL WID (Grown width at end of season)
553 WDC (Weed competition)
553 ADT (Status: active, inactive, terminated)

553	F 01	CID
552	FOL	L
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			LINTON	SIL	*)	21	WIENTJE	6922	08601	ONIM	*86	100	95	1.7	5	٣			
		53	HOF	-	3		HAUPT	6922	06501		*84					Ę			
					3	-	JELY CO SC	6922	08301	IQ	*85					-			
					*7		JLLY CO	6922	08301	NIOS	*86					~	3 A		
		0530	HIGHMORE-EAKIN	SIL	~)	$\sim$	SCHANZENB	6922	08601	N	<b>*</b> 86	150				•			

RATING SYSTEM 1=EXCELLENT R=6000 5=FAIR 7=POOR 9=VERY POOR

Legend:
505 CNT NUM (FIPS County Code)
505 CNT NUM (FIPS County Code)
507 FUELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)
532 SUR PCT (Percent survival)
552 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
553 FOL WID (Adaptation)
553 FOL WID (Status: active, inactive, terminated)

### A SJMMARY OF \*OAHE\* HACKBERRY FIELD PLANTINGS IN SOUTH DAKOTA 11/09/1987

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713	STA	<b>4 4</b>	<b>—</b>	_	<b></b>	<b></b>	<b>—</b>	<b>—</b>	Ι		<b>—</b>	<b></b>	<b>-</b>	<b>-</b>	_	ď	⋖	Ø	V	Ø	V	¥	<b>—</b>	<b>—</b>	⋖	Ø	<<				[med	<b>—</b>			-
255	ADPT	-	-	3	2	€0	2	€0	-	₩.	М	٠	?	*			Ę	C								m	_	7		ĸ	_	₩)	1	-	erel
525	DOM		3.	3	M	6	ĸ	3	3	7	7	Ĺ	Ω	7			-	2		_	3	~		5	3	വ	<u>ب</u>	~	~	3			<b>6</b> 0	М	-
553 FOL	-		1.8						•		1.		10.6	11.5				1.5														•	•	1.2	•
552 FOL	-		1.9					•	•		•		12.3	1.9				1.7								•	•		•	•			•	1.9	•
532 SUR	C	21											9.0	92		10	-		3	100	9	0		0		90								16	
518 VUM	_4	132	4		2	6		5									15												4	-		-	1	09	
699 YR		# # © 00 00 00	<b>σ</b> Ω	$\infty$	8	$\infty$	$\infty$	8	8	$\infty$	8	0	Ω Ω *			8	*85	$\infty$	8	$\infty$	8	$\infty$		8	8	8	$\infty$	8	8	8	8	$\infty$	8	*81	00
517	PURP	SDIN	Z			Z	Z	Z	WNBR	m Z	N N					8	2	Z	R.R	Z	Z	Z	Z	Z	Z	Z	Z	00 Z	S S	N N	NB NB	NB	NB	LNBR	N N
	0 2	700	0.1	N	$\blacksquare$	$\blacksquare$	$\sim$	-	₩	2	M 1	2	VW	7 M	$\rightarrow$	0	0	0	C	$\rightarrow$	$\rightarrow$	$\sim$	-		-	-	-	0	0	-	2	2	2	$\sim$	-
	LVI	SD851	068	068	058	058	070	070	073	073	073	071	110	073	D80	085	085	085	D 8 5	085	085	082	085	085	082	085	082	073	068	073	068	990	070	058	073
	BER	6982	38	98	38	98	98	98	98	38	98	986	ν α σ	38	98	98	38	98	98	98	98	98	98	98	98	9 8	98	98	38	38	98	98	98	98	9 8
0 0 1 A C C	$\supset$	47																																	
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	œ		01	7	7				~	~	;	5 H-4	5 I			SITE			6 SITE)		7			トフ		T SERV			EIO		K HUTTER	4J1TE			
503	COOPERATOR	M STIME	BOKELHEI	L LARSO	ANDER	TUITER	NELSON	OSNHCC	. MATZNE	. MATZNE	. MATZNER	AVISON CO 4-H G	MATANED	MATZ	HOWARD	DSJ (DRY SIT	SPILD	SPILDE	DSJ (IRRG SI	JACOBS	KERST	PETIK	LIVERMON	LIVERMON	SDA-FOREST SERV	SDA-FOREST SERV	KVANVIG	• CROSSER	• 30KELHEI	• WEISHAN	AITE ROCK HUTTE	HITE ROCK AJITE	. NELSO	ARSU	• ARN
0	UM COOPERATO	STIM	3 E BOKELHEI	9 E L LARSO	1 W ANDERSO	09 L TWITER	9 L NELSON	25 L JOHNSD	3 A. MATZNE	3 A. MATZNE	3 A. MATZNER	5 DAVISON CO 4-H G	S DAVISON CO 4-H G	A MATZNE	9 T HOWARD	9 SDSJ (DRY SIT	9 T SPILD	9 T SPILDE	9 SDSJ (IRRG SI	1 S JACOBS	1 J KERSTEI	1 J PETIK	W LIVERMON	W LIVERMON	03 USDA-FOREST SERV	3 USDA-FOREST SERV	05 K KVANVIG	1 L. CROSSER	13 E. 30KELHEI	15 E. WEISMAN	9 MAITE ROCK HUTTE	09 WHITE ROCK HJITE	09 L. NELSO	E. LARSU	5 D. ARN
05 50 VI	REA NUM COOPERATO	1 M STIM	3 E BOKELHEI	29 E L LARSO	51 W ANDERSO	109 L TWITER	109 L NELSON	125 L JJHNSD	3 A. MATZNE	3 A. MATZNE	3 A. MATZNER	35 DAVISON CO 4-H G	35 DAVISON CO 4-H G	5 A MATZNE	59 T HOWARD	TIS YAO) ESCS 69	69 T SPILD	69 T SPILDE	69 SDSJ (IRRG SI	31 S JACOBS	31 J KERSTEI	31 J PETIK	7 W LIVERMON	7 W LIVERMON	103 USDA-FOREST SERV	103 USDA-FOREST SERV	105 K KVANVIG	11 L. CROSSER	7 13 E. 30KELHEI	3 115 E. WEISMAN	8 109 AMITE ROCK HUTTE	8 109 WHITE ROCK HUTTE	8 109 L. NELSO	29 E. LARSU	4 25 D. ARN
711 505 50. 434 CNF	EXT AREA NUM COOPERATO	1 M STIM	1 13 E BOKELHEI	ICL 1 29 E L LARSO	1 51 W ANDERSO	L 109 L TWITER	L 1 109 L NELSON	ICL 1 125 L JOHNSD	3 A. MATZNE	3 A. MATZNE	2 3 A. MATZNER	35 DAVISON CO 4-H G	2 SS DAVISON CO 4-H G	35 A MATZNE	59 T HOWARD	TIS YAO) ESCS 69	69 T SPILD	2 69 T SPILDE	2 69 SDSJ (IRRG SI	5 31 S JACOBS	SL 3 31 J KERSTEI	5 31 J PETIK	FS 4 7 W LIVERMON	FS 4 7 W LIVERMON	103 USDA-FOREST SERV	103 USDA-FOREST SERV	4 105 K KVANVIG	11 L. CROSSER	7 13 E. 30KELHEI	3 115 E. WEISMAN	8 109 AMITE ROCK HUTTE	8 109 WHITE ROCK HUTTE	8 109 L. NELSO	0 29 E. LARSU	24 25 D. ARN
93 711 505 50 01L 434 CNF	SOIL SERIES TEXT AREA NUM COOPERATO	POINSETT SL 1 11 4 STIM	WILLIAM L 1 13 E BOKELHEI	RANZBURG SICL 1 29 E L LARSO	URMAN L I 51 W ANDERSO	PEEVER CL 1 109 L TWITER	SVERSDRUP SL 1 109 L NELSON	EGAV SICL 1 125 L JOHNSO	3 A. MATZNE	3 A. MATZNE	2 3 A. MATZNER	2 35 DAVISON CO 4-H G	UUUUEK-JRUSPER L 2 35 DAVISUN CU 4-H G	35 A MATZNE	IL 2 59 T HOWARD	TIS YAO) ESCS 69	GLEVHAY L 2 69 T SPILD	SLEVHAM L 2 69 T SPILDE	2 69 SDSJ (IRRG SI	EEDER L 3 31 S JACOBS	REMBLES FSL 3 31 J KERSTEI	5 31 J PETIK	LSMERE LFS 4 7 W LIVERMON	LSWERE LFS 4 7 W LIVERMON	4 103 USDA-FOREST SERV	4 103 USDA-FOREST SERV	4 105 K KVANVIG	IL 7 11 L. CROSSER	7 13 E. 30KELHEI	ECLA SL 13 115 E. WEISMAN	STAD 18 109 AMITE ROCK HUTTE	ORMAN-AUSTAD 18 109 WHITE ROCK HUTTE	8 109 L. NELSO	ICL 20 29 E. LARSU	ORMAN L 24 25 D. ARN
07 503 711 505 50 SOIL 434 CNF	OIL SERIES TEXT AREA NUM COOPERATO	OINSETT SL 1 11 M STIM	538 WILLIAM L 1 13 E BOKELHEI	02 KRANZBURG SICL 1 29 E L LARSO	02 FURMAN L 1 51 W ANDERSO	02A PEEVER CL 1 109 L TWITER	02 SVERSDRUP SL 1 109 L NELSON	D2B EGAV SICL I 125 L JOHNSD	55 2 3 A. MATZNE	55 2 3 A. MATZNE	2 3 A. MATZNER	55 HOUDEK-PROSPER L 2 35 DAVISON CO 4-H G	55 HOUDER-PROSPER L 2 35 DAVISON CO 4-H 6	35 A MATZNE	ADELLE-LAMOURE SIL 2 59 T HOWARD	TIS YAO) ESCS 69	LEVHAM L 2 59 T SPILD	53C GLEVHAM L 2 69 T SPILDE	2 69 SDSJ (IRRG SI	54 REEDER L 3 31 S JACOBS	54 TREMBLES FSL 3 31 J KERSTEI	54 SHAMBO L 5 31 J PETIK	64 ELSMERE LFS 4 7 W LIVERMON	4 ELSMERE LFS 4 7 W LIVERMON	63A 4 103 USDA-FOREST SERV	63A 4 103 USDA-FOREST SERV	4 105 K KVANVIG	02 ESTELLINE SIL 7 11 L. CROSSER	55 7 13 E. 30KELHEI	55 HECLA SL 13 115 E. WEISMAN	02 FORMAN-AUSTAD 18 109 AMITE ROCK HUTTE	02 FORMAN-AUSTAD 18 109 WHITE ROCK HJITE	02 18 109 L. NELSO	RANZBURG SICL 20 29 E. LARSU	55 FORMAN L 24 25 D. ARN
06 507 599 711 505 50 SOIL 434 CNF	RA SOIL SERIES TEXT AREA NUM COOPERATO	02A POINSETT SL 1 11 4 STIM	0 0538 WILLIAM L 1 13 E BOKELHEI	D 102 KRANZBURG SICL 1 29 E L LARSO	D 102 FURMAN L 1 51 W ANDERSO	O 102A PEEVER CL 1 109 L TWITER	D 102 SVERSDRUP SL 1 109 L NELSON	D 102B EGAN SICL 1 125 L JOHNSO	D 055 2 3 A. MATZNE	D J55 2 A MATZNE	D 055	0 055 40U0EK-PROSPER L 2 35 DAVISON CO 4-H G	U USS HUUDEK-FROSPER L 2 35 DAVISUN CU 4-H G	D 35 A MATZNE	D 055 LADELLE-LAMOURE SIL 2 59 T HOWARD	0 2 69 SDSJ (DRY SIT	D 053C GLEVHAM L 2 69 T SPILD	D 053C GLEVHAM L 2 69 T SPILDE	D 2 69 SDSJ (IRRG SI	D 054 REEDER L 3 31 S JACOBS	D 054 TREMBLES FSL 3 31 J KERSTEI	D US4 SHAMBO L S 31 J PETIK	D 064 ELSMERE LFS 4 7 W LIVERMON	D 064 ELSYERE LFS 4 7 W LIVERMON	D 063A 4 103 USDA-FOREST SERV	D 063A 4 103 USDA-FOREST SERV	D 4 105 K KVANVIG	D 102 ESTELLINE SIL 7 11 L. CROSSER	D 355 7 13 E. 30KELHEI	D 055 HECLA SL 13-115 E. WEISMAN	D 102 FORMAN-AUSTAD 18 109 AMITE ROCK HUTTE	D 102 FORMAN-AUSTAD 18 109 WHITE ROCK HJITE	D 102 18 109 L. NELSO	D 102 KRANZBJRG SICL 20 29 E. LARSU	D 055 FORMAN L 24 25 D. ARN

ATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=POOR 9=VERY POOR

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)

552 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
525 WDC (Weed competition)
627 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated)

A SJMMARY DE \*DAME\* HACKBERRY FIELD PLANTINGS IN SOUTH DAKOTA 11/09/1987

₩	AT				
713	T STA	j.	1	3	-
527	ADP				
525	3 Q M	~	6		e>)
553 FOL	WID	•	•	•	•
552 FOL	H	1.2	1.2	1.7	1.1
532 SUR	PCT	8 0		66	93
518 VU4	PLIS	25	73	73	147
699 YR	R C	*84	*81	*84	*81
517	PURP	UNBR	WNBR	HNBR	WABR
502 FIELD	PLNT NO	5073011	SD70001	SD70001	
001 ACCN	NJMBER	476982	476982	476382	476982
,si					
	PERATOR	ARNE	KEINTZ	KEINTZ	3REMMON.
505	C 0 0 P	0.	٠,		e Li î
595 CVI	NO.	25	6		
711 434	ALEA	24	27	27	2.1
FICS	TEXT		SIC	SIC	_
	SERIES	7			2
507	2016	FORMA	SIVAI	SINAI	FORMAN
90¢	4LRA	055	0.55	0.55	955
504	ST	SD	SD	3.0	SD
	*				

ATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P003

A SUMMARY OF NO-20 (3005751) ARNOLD MAWINDRN (CRATAESUS ARNOLDIANA) FIELD PLANTINGS 11/03/1987

15 627 713																																			,	1 1 1
53 52 0L ID WD	! •																																		,	9
52 5 0L F																																				1.5
532 5 SUR F PCT H	4	4	7	đ	4	4	4	4	4	đ	4	4	đ	4	4	4			8		3.0		5	2	D.	3	6	ю	2	Ю	ĸ			•	→ ¢	66
518 NUM PLIS		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				15			5	ນ	2	S	വ	5	5	2	ស		10			50
699 YR RC	V.C	*61		S		9	9		9	9		7	$\sim$	~	1		_	-	~	$\infty$	-	~	_		~	~	-	~			7			a	) v	$\infty$
517 PURP																	Z	Z	HIND	N					Z	UNIA	Z	Z	Z	N	IN			CASM		W L D F
502 FIELD PLVT NO	15000	1500	15000	T5000	T6000	T6000	T5000	16000	16000	16000	T5000	T6000	15000	T5000	T6000	15000	17215	17215	17215	17215	T7313	17313	17411	17411	T7312	17312	17312	T7312	17312	17312	17312	17410	T7410	MT74102	21011	0/100
OO1 ACCN NJMBER	00573	00573	00573	00573	00573	0.0573	00573	00573	00573	00573	00573	0.0573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	00573	9005731	01000	005/3
509 711 505 503 SOIL ADM CNI TEXT AREA VUM COOPERATOR	9 PMC • 3R IUG	PMC+3RIDGER	PMC.3RIDGE	PYC. 3RIDGER. Y	P4C, 3RID6	PYC, BRIDGER, M	PMC, 3RIDGER, 4	PMC.BRIDGER. 4	PMC, BRIDGER, M	PMC, 3RIDGER, 4	PYC.3RIJGER.4	PMC.3RIDGER.4	PMC, BRIDGER, 4	PMC,BRIDGER,4	PMC, BRIDGER, 4	P4C.3RIDGER,4	5 CRETSINGER + BAKER + M	5 CREISINGER, BAKER, M	5 CRETSINGER, BAKER, 4	5 CREISINGER, BAKER, M	9 PENNEY . KALISPELL . M	9 PENNEY + KALISPELL +	9 PENNEY * KALISPELL * M	9 PENNEY, KALISPELL, M	9 J.GALLAND, TERRY, 4	9 0.6ALLAND, TERRY,	9 O.GALLAND. TERRY. Y	79 0.GALLAND, TERRY, 4	9 0.6ALLAND.TERRY.Y	9 D.GALLAND, TERRY, 4	9 J.GALLAND. TERRY. 4		7	<b>&gt;</b> (.	TI CERTINO TENO	I L BELKMA
FOOF 507 MLRA SUIL SERIES																	DRSYTH LUA	ORSYTH LOA	ORSYTH LOA	ORSYTH LOA	LANCHARD FS	BLANCHARD FSL	LANCHARD FS	LANCHARD FS												102 KRANZBOŁG
5 T S T	Ε *	7 12	<u>►</u>	TM	5	™ T	<u>F</u>	F 5	5	<u>F</u>	<u>&gt;</u>	7 1	⊥ w	7	50	<u>×</u>	7	N H	41	<u>→</u>	>	E	5	Σ	7	<u>F</u>	<del>-</del> 5.	4 1	5	<u> </u>	5	1 5	<u>&gt;</u>	⊢	- 0	n c

RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00R

552 FOL HT (Height at end of season)
553 FOL WID (Grown width at end of season)
525 WDC (Weed competition)
627 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated) Legend:
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532 SUR PCT (Percent survival)

	713	STAI		A	¥				
		A 3PT STAT							
	525 527	COM							
	553 FOL	W10							
	552 FOL								
	532 SUR	PCT			10	5	0	00	
S	518 NUM	PLTS		10	10	10	10		20
SALF	699 YR	RC		* 85	*85	474	# B 0	08#	
PLA	517	PURP		IRRG	IRRG				
IA) FIELD	502 FIELD	PLVT VO			SD95028	WY74104	WY74104	UY79052	WY74105
A S NOL D I A N	001 ACCN	NUMBER		9005731	9005731	9005731	9005731	9005731	9005731
A SJYWARY OF YO-20 (3005731) ARNJLO MAWIHIRN (CRATAESUS ARNOLDIANA) FIELD PLANTINGS 11/09/1987	509 711 505 503 SJL 139 CVI	TEXT AREA VUM COOPERATOR		2 59 SDSJ (ORY SITE)	2 69 SOSJ (IRRG SITE)	S AYODAK GILLETTE AY	S WYODAK GILLETTE # 4Y	15 SAND MESA, RVRTN. JY	33 30Y SCTS+SHERIDAN+WY
A SJYMARY OF 40-2	504 506 507	MLRA SOIL SERIES							
	504	SI		SD	20	<u>≻</u>	××	λM	×
	*		4 4	4	•	4	4	*	*

RATING SYSTEM 1=EXCELLENT 5=6000 5=FAIR 7=POOR 9=VERY POOR

### A SJMMARY OF VO-1877 (9311859) HONFYLOGUST IN SOUTH DAKOTA 11/12/1987

1	41	504	506	507	~	10 C	05 503 VI	0 0 1 A F F N	505	517	669	518 NIM	532 5	5.2		25 52	7 7	33
102A VIENYA   1		S	L3	OIL SERIE	EXTA	E A	M COOPERATO	JMBE	LVTN	PUR			CTH		10	<b>⋖</b> 7	S	IAI
11	* * *																	
1024 VIENNA	41	SD	0.2	OIVSET	SIL	-	A 0LS0	01185	08500	SDI	$\mathfrak{D}$	19	86			2	⋖	
102A POLYSETT   SIL   1   A OLSON   9011850   SOBSOOS   SOLN *86   74   70   2*0   *5   5   5   10   102A VIENNA   L   1   1   YSELKEN   9011850   SOBSOOS   SOLN *87   56   81   2*5   *9   5   5   5   5   5   5   5   5   5	-te	SD	0.2	IEVN	ب		1 M SELKE	01185	08500	SDI	8	36	16			-	V	
1	41	SD	0.2	OINSET	SIL	4	1 A 0LS0	01185	08500	SDI	8	14	7.0			<u>-</u> C		
D 55B         ABERDEEN         SICL         1 115         S MASNER         9011850         SOBSOC1         WIND         *85         531         74         1.7         1.0         7           0 55B         ABERDEEN         SICL         1 115         S MASNER         9011850         SOBSOC1         WIND         *85         531         74         1.7         1.0         7           0 055C         BEADLE         L         2         5         C FLOWERS         9011850         SOBSOC2         WIND         *85         75         73         3.8         5           0 055C         BEADLE         L         2         5         SOSJ (1RRS         9011850         SOBSOC2         WIND         *85         10         10         7           0 055C         BEADLE         L         2         5         J SPILDE         9011850         SOBSOC4         WIND         *85         10         10         10         10         10         10         10         10         10         10         10         10         11         11         10         10         10         10         10         10         10         10         10         10         10         10<	•	20	0.2	IENN	٦	-	1 M SELKE	01135	08500	SDI	8	36	81			€		
0         55B         ABERDEEN         SIC         1 115         S WASNER         9011350         S095021         JIND         *85         331         74         1.7         1.0         7           0         055C         BEADLE         L         2         5         C FLOWERS         9011350         S085027         WIND         *85         75         85         9         7         80         9         7         80         9         1         7         85         8         8         7         8         8         7         8         8         7         8         8         9         7         8         8         9         8         10         9         8         9         8         9         9         8         9         9         8         9         9         8         9	*	SD	ın	BERDEE	SICL		15 S WASNE	01185	08502	NIN	$\infty$		9.2			8	Ø	
D         055C         BEADLE         L         2         5         C         C         FLOWERS         9011850         SDB5027         WIND         *85         75         35         3.8         *8           D         055C         3EADLE         L         2         5         C         FLOWERS         9011850         SDB5027         WIND         *85         10         80         8         9         8         8         9         9         <	4	20	2	BERDEE	SIC		5 S WASNE	01135	08502	Z	$\infty$		74	1.7		1		
D         055C JEAJLE         L         2         5 C FLJWERS         9011950         S095027         WIND         *86         75         73         3.8         *8           D         055C JEAJLE         2         59 SDSJ (DRY SITE)         9011850         S085003         IRRG         *85         10         80           D         655C GLENHAM         L         2         59 T SPILDE         9011850         S085004         WIND         *85         10         90           D         655C GLENHAM         L         2         69 T SPILDE         9011850         S085004         WIND         *85         10         90           D         655C GLENHAM         L         2         69 T SPILDE         9011850         S085004         WIND         *85         10         90           D         655C GLENHAM         L         2         69 T SPILDE         9011850         S085004         WIND         *85         10         90         1         7           D         655C T SPILOR         S011850         S085016         WIND         *85         10         90         1         7         7           D         655C SURSONALICAR         S011850         S085017	*	SD	55	EADLE	ب	2	5 C FLOWER	01185	08502	ZIB	8	75	85			5	A	
0       55 505J (1RRG SITE)       9011850       \$085003       IRRG *85       10       80         0       55 505J (1RRG SITE)       9011850       \$085028       IRRG *85       10       100         0       55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	*	SD	55	HOVE		2	5 C FLOWER	01185	08502	NIB	$\infty$	7.5	73				3 A	
D         653C         GLENHAM         L         2         59         T SPILDE         9011850         SD85028         IRRG         *85         10         100           D         653C         GLENHAM         L         2         59         T SPILDE         9011850         SD85004         MIND         *85         10         90         1-4         -6         1           D         653C         GLENHAM         L         2         69         T SPILDE         9011850         SD85014         MIND         *86         10         90         1-4         -6         1           D         654         TREMBLES         FSL         3         J PETIK         9011850         SD85019         MIND         *85         10         90         7         7         7           D         654         SHAMBO         L         J PETIK         9011850         SD85016         MIND         *85         10         90         7         7         7           D         6533         VIDA         MILLIAMS         30         L         3         99         TRAXINGER         9011850         SD85017         MIND         *86         75         27         2.5	4	SD				2	9 SDSJ (DRY SIT	01185	08200	IRR	8	10	8.0					
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RATING SYSTEM 1=EXCELLENT 3=6000 5=FAIR 7=P00R 9=VERY P00R

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)
553 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
553 FOL WID (Status; active, inactive, terminated)

# A SUMMARY OF THE CARREST AMUS HONEYSUCKET FIELD PLANTINGS IN SOUTH DAKOTA II/16/1987

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527	AJPT	
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## A SJMMA-Y DE VJ-33 (3005228) LATE LILAC FILLO PLANTINGS IN SOUTH DAKOTA 11/12/1987

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SEFAIR 7=POOR 9=VERY POOR RATING SYSTEM 1=EXCELLENT S=6000

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)
552 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
553 WDC (Weed competition)
525 WDC (Weed competition)
513 STAT (Status: active, inactive, terminated)

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A SUFFARY OF MO-SCH (477392) ANDR. FARLE FIELD PLANTINGS IN SOUTH DAKOTA.

9=VERY POOR 5=FAIR 7=POOR RATING SYSTEM 1=EXCELLENT 3=600D

Legend:
505 CNT NUM (FIPS County Code)
502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
517 PURP (Purpose)
599 YR RC (Year of record)
518 NUM PLTS (Number of plants)
532 SUR PCT (Percent survival)
552 FOL HT (Height at end of season)
553 FOL WID (Crown width at end of season)
553 MDC (Weed competition)
553 ADPT (Adaptation to site)
713 STAT (Status: active, inactive, terminated)

(Adaptation to site)
(Status: active, inactive, terminated)

# A SJMMARY DE VD-14 HARBIN PEAR (PYRUS JSSURIEVSIS) FIELD PLANTINGS IN SOUTH DAKOTA 11/39/1987

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RATING SYSTEM 1=EXCELLENT 5=6000 5=FAIR 7=2003 9=VERY PODS

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

### Long Range Plan for Field Plantings

Species: Prunus padus var. commutata Dipp.

Common name: European birdcherry, mayday.

Accession number: SD-131, 6073T.

Purpose of field plantings: Evaluated this for use as a medium tree component of multiple row field and farmstead shelterbelts, single row field windbreaks, wildlife plantings and recreational area developments. Provides food and nesting sites for song birds and other wildlife. Non-suckering habit should be advantageous as a substitute for chokecherry.

Literature review and background information: Mayday is native to Europe and Asia. This shrubby, rounded tree may reach a height of 30 feet. Nonpersistant fruit is small, black, about 1/4 inch across, ripening in July. Branches are low and ascending. One of the first trees to leaf out in the spring. Black knot disease is considered a limiting factor for the species, especially in Minnesota. Root stocks are compatible with chokecherry scion wood. It is hardy in the Dakotas and is non-suckering.

Seed of SD-131 was collected in 1964 from one or more trees on the Oscar Hobbie farm three miles south of the Brookings County line in Moody County near Flandreau, South Dakota. This 1952 planting was established with stock from the Gurney Nursery, Yankton, South Dakota. This and other similar plantings in South Dakota were thought to trace to early introductions by J. L. Budd, Iowa State College, from eastern Siberia via the Imperial Botanical Gardens of Russia. It has performed well in Field Evaluation Plantings in North Dakota, South Dakota and Minnesota.

Duration of field plantings: 10 years.

Standard of comparison: common chokecherry.

Approximate size of field plantings: Minimum of 25 trees per entry.

Location of field plantings: All MLRAS in North Dakota, South Dakota and Minnesota. Selected sites in Iowa, Wisconsin, Nebraska, Montana, Kansas and Wyoming.

Site selection: Recommended for planting on the soils in windbreak suitability groups 1-6. Performs best on moist, moderately well drained to well drained clay loams or sandy soils.

<u>Evaluations</u>: Complete evaluations as required by PMS on Form SCS-ECS-10, Evaluation of Woody Field Plantings.

Summary results: Results will be summarized when trials are complete.

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

### Long Range Plan for Field Plantings

Species: Helianthus maximiliani Shrad.

Common name: maximilian sunflower.

Accession number: ND-3959, 35964T.

Purpose of field plantings: Evaluate this selection for use in wildlife habitat plantings, range seedings, surface mine reclamation or beautification of transportation corridors and recreational area developments. Stiff upright stems may have potential as vegetative wind barriers. A highly palatable and nutritious livestock forage. Seeds are heavily utilized by birds and other wildlife.

Literature review and background information: Maximilian sunflower is a native, perennial, warm season forb. It grows upright singly or in tight colonies, spreading by seed and heavy rootstalks. Stem heights reach 3-6 feet with conspicuous yellow flower clusters arising on short flower stalks from the leaf axils. Flowers may be present from July through September. It is found in the plains from Saskatchewan and Manitoba south to Missouri and Texas and in some eastern states. Although more abundant in eastern Dakotas than western, it is found along streams, near springs and wet areas in the west. There are approximately 225,000 seeds/pound.

The origin of this accession is from native sites in Grant, LaMoure and Cavalier Counties, North Dakota; Marshall County, South Dakota and Big Stone County, Minnesota. ND-3959 is a composite of five accessions selected on the basis of four years favorable performance in comparison to 52 other accessions from the Dakotas and Minnesota. Criteria for selections included maturity, plant size, vigor, leafiness, number of stems and susceptibility to sunflower rust. Flowering and maturity averages 2 weeks earlier than selections from southern and central South Dakota. Height is variable but may exceed 4.5 feet under optimum conditions or cultivations.

Duration of field plantings: 4 to 5 years.

Standard of comparison: 'Prairie Gold' maximilian sunflower.

Approximate size of field plantings: Minimum size for range and pasture plantings is five acres and one-half acre for critical area, wildlife, roadside and similar plantings.

Location of field plantings: All MLRAS in North Dakota, MLRAS 58D, 63A (northern half) in South Dakota, MLRAS 56, 57, 88, 90, 91, 92, 93, 94A, and 94B in Minnesota.

Site selection: Maximilian sunflowers prefer moist sites and heavier soils, particularily overflow areas, swales, streambanks, ravines and roadside ditches. Commonly associated with big bluestem communities.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary results: Results will be summarized when trials are complete.

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

### Long Range Plan for Field Plantings

Species: Helianthus maximiliani Shrad.

Common name: maximilian sunflower.

Accession number: ND-3651, 8065T.

Purpose of field plantings: Evaluate this selection for use in wildlife habitat plantings, range seedings, surface mine reclamation or beautification of transportation corridors and recreational area developments. Stiff upright stems may have potential as vegetative wind barriers. A highly palatable and nutritious livestock forage. Seeds are heavily utilized by birds and other wildlife.

Literature review and background information: Maximilian sunflower is a native, perennial, warm season forb. It grows upright singly or in tight colonies, spreading by seed and heavy rootstalks. Stem heights reach 3-6 feet with conspicuous yellow flower clusters arising on short flower stalks from the leaf axils. Flowers may be present from July through September. It is found on the plains from Saskatchewan and Manitoba south to Missouri and Texas and in some eastern states. Although more abundant in Minnesota and the eastern Dakotas, it is found along streams, near springs and wet areas in the western Dakotas. There are approximately 225,000 seeds/pound.

The origin of this accession is from a silty overflow site in Hughes County, South Dakota. Selected on favorable performance in comparison to 52 other accessions collected in the Dakotas and Minnesota. Criteria for selection included maturity, plant size, vigor, leafiness, number of stems and susceptibility to sunflower rust. Flowering and maturity averages 2 weeks later than selections from North Dakota. Height exceeded 6 feet under cultivation.

Duration of field plantings: 4 to 5 years.

Standard of comparison: 'Prairie Gold' maximilian sunflower.

Approximate size of field plantings: Minimum size for range and pasture plantings is five acres and one-half acre for critical area, wildlife, roadside and similar plantings.

Location of field plantings: All MLRAS in South Dakota; MLRAS 90, 91, 94, 102A, 102B, 103, 104, and 105 in Minnesota; MLRAS 54,

53B (southern half), 55B (southern half), and 56 (southern half) in North Dakota.

Site selection: Prefers deep, fertile lowland, moist sites.
Particularily overflow areas, swales, streambanks, ravines and roadside ditches. Commonly associated with big bluestem communities.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary results: Results will be summarized when trials are complete.

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

### Long Range Plan for Field Plantings

Species: Elymus giganteus Vahl.

Common Name: mammoth wildrye

Accession Number: ND-691, PI-313965

Purpose of Field Plantings: This selection will be evaluated for use as vegetative barriers or windbreaks. Course stem and foliage remain upright in winter and may also prove useful for wildlife food and cover. Its stout creeping habit has potential for stabilizing sand or critical areas.

Literature Review and Background Information: Mammoth wildrye is a tall course, introduced perennial grass, spreading from stout, vigorous rhizomes. Sessile spikelets make up a long dense spike supported by a thick, stiff culm. It is considered moderately palatable to grazing animals. This species can vary in growth from short, slender stemmed plants to thick robust plants up to 6 feet tall depending on moisture. Occasionally, it is grown as an ornamental. It is native to Siberia.

Increase of ND-691 was initiated from vegetative plugs planted in the spring of 1981 after 3 years of initial evaluation. This selection was first received in 1971 from Plant Introduction Station 59, Pullman, Washington which obtained the seed from Russia. This species appears adapted to the cold and droughty conditions of North Dakota. Insect and disease problems appear slight.

Duration of Field Plantings: 4 to 5 years.

Standard of Comparison: Volga mammoth wildrye, and T-16187 mammoth wildrye.

Approximate Size of Field Plantings: Minimum size for pasture is five acres and one half acre for critical area, wildlife, roadside and similar plantings.

Location of Field Plantings: all MLRAS in North Dakota, South Dakota, and Minnesota. Selected sites in Montana, Wyoming, Nebraska, and Kansas.

<u>Site Selection</u>: Adapted to deep sands, sandy loam, droughty porous soil (not especially adapted to gravels). Has exhibited moderate salt tolerance in some clayey saline soils.

<u>Evaluation</u>: Complete evaluations as required by PMS on SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary of Results: Results will be summarized when trials are complete.

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

### Long Range Plan for Field Plantings

Species: Gleditsia triacanthos L.

Common name: Honeylocust.

Accession number: ND-1879, MDN-10435, 11850T.

Purpose of field plantings: Evaluate this selection for use as a tall or medium tree component of multiple row field and farmstead windbreaks and recreational area developments. It also has potential for wildlife habitat and natural area plantings.

Literature review and background information: Honeylocust is a medium to tall, fast growing, drought resistant tree (18-50 feet). It is adapted to a wide range of soils and can withstand alkaline soils. This species is noted for its zigzag twigs, large 2 to 4 inch thorns and fine textured compound leaves. Its fruit is a large bean shaped pod. Selections can be obtained which are thornless. Winter injury is common in the central and northern areas of South Dakota and all of North Dakota on seedlings grown from poorly adapted seed sources.

ND-1879 is a source selection based on 45 years of performance at the USDA, ARS Station, Mandan, North Dakota and comparison with other locally tested accessions, this accession differs morphologically from common honeylocust. Branches of the parent trees are nearly thornless. The leaflets are slightly smaller, less ellipic and rounded. It appears more winter hardy in North Dakota and South Dakota than seed sources originating from the nearest native sites in northeastern South Dakota and northern Minnesota. Has performed well in most Field Evaluation Plantings in North Dakota, South Dakota and Minnesota.

Duration of field plantings: 10 years.

Standard of comparison: common honeylocust, green ash, manchurian crabaple, Russian olive.

Approximate size of field plantings: Minimum of 25 trees per entry.

Location of field plantings: All MLRAS in South Dakota; MLRAS 53B, 54, 55B, 56 (southern half), 58C; in North Dakota; MLRAS 56 (southern half), 57, 88, 90, 91, 94, 102A, 102B, 103, 104, and 105 in Minnesota. Selected sites in Nebraska, Kansas, Wyoming and Montana.

Site selection: Adapted to moist, well drained bottomlands and limestone soils. Tolerates drought, high PH and salt.

<u>Evaluations</u>: Complete evaluations as required by PMS on Form SCS-ECS-10, Evaluation of Woody Field Plantings.

Summary results: Results will be summarized when trials are complete.

Estimated	\$ Value		13,060						10,000					3,278		3,404	
	Quantity	0	1306	0	0	0	0	0	1000	0	0	0	0	14,900	0	0 14,800	5)
Acres &		7 (1973)	7 (1973)	6 (1973)	6 (1973)	9 (1961)	(1977) 46.5 (1983)	29 (1984)	30 (1985) (1986) (1986)	4 (1967)	8 (1970)	30 (1969)	10 (1969)	υ		(1985)	25 plts (1985)
SOUTH DAKOTA SEED INCREASE AND PRODUCTION - 1986	Species 'Garrison' creeping foxtail	'Neb-28' switchgrass	SD-149 switchgrass	'Summer' switchgrass	'Pathfinder' switchgrass	'Garrison' creeping foxtail (Cert.)	'Garrison' creeping foxtail 'Forestburg' switchgrass	'Forestburg' switchgrass	'Forestburg' switchgrass 'Pierre' sideoats grama MDN-259 pubescent wheatgrass	'Garrison' creeping foxtail	NDG-4 big bluestem	'Garrison' creeping foxtail	'Garrison' creeping foxtail	'Midwest' manchurian crabapple	'Cardan' green ash	'Oahe' hackberry 'Sakakawea' silver buffaloberry	'Sakakawea' silver buffalober
	Cooperator, Address Mason Wheeler Aurora, SD 57002	(605-693-4239)				Allen Watt (605-692-7471) 2024 Olwien St. Brookings, SD 57066 Gregory Watt (629-6081) White, SD 57276	Glen Davis R. Easland	D. Storer	V. Meyer T. Rethke	Terry Flyger	D. Jessen	L. Roberts	W. Muellenberg	South Dakota Game	Se	Watertown, SD 57201 (605-886-6806)	The second secon
	Field Office Brookings						DeSmet	Madison	Milbank	Parker	Redfield			Watertown			-
SOUTH D.	Area 01																

Lotimoton	\$ Value	18,000							1,200		
	Quantity 0	1800	0	0	0	0	0	0	100	0 0	
3	Yr. Pltd. 18 (1984) 16.5 (1985)	20 (1983)	21.6 (1971)	4	10	4 (1963)	10 (1984)	30 (1980)	9 (1984) 10 (1986) 20 (1986)	17 (1983) 20 (1982)	
	Species 'Forestburg' switchgrass 'Forestburg' switchgrass	'Forestburg' switchgrass	'Garrison' creeping foxtail	'Garrison' creeping foxtail	'Garrison' creeping foxtail	'Garrison' creeping foxtail	'Pierre' sideoats grama	'Forestburg' switchgrass	SD-27 big bluestem 'Forestburg' switchgrass 'Forestburg' switchgrass	'Pierre' sideoats grama MDN-759 pubescent wheatgrass	
SOUTH DAKOTA SEED INCREASE AND PRODUCTION - 1986	Cooperator, Address R. Krog D. Lake	Lee Buffington (605-374-3831)	Walter Kalt (605-225-2797) Route 2, Box 29 Mina, SD 57462	Atlas Wendt Mína, SD	Dwayne Blomster Wetonka, SD	Ron Bieber Leola, SD (605-439-3628)	H. Baumberger	M. Stiegelmeier (605-649-7030)	L-7 Ranch Mission, SD (605-856-4621)	Hurst, P. Ferguson, W	
AKOTA SEED INCRE	Field Office Chamberlain	Wessington Springs	Ipswich			Leola	McIntosh	Selby	White River	Winner	
SOUTH DA	Area 02		03								

1986	
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PRODUCTION	-
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INCREASE	
SEED	
DAKOTA	
SOUTH	

	ъ I							- 69 -		
	Estimated \$ Value				720		12,937		12,736	69,401 82,137
	Quantity 0	0	0	0 0	909	0	1725	0	51,850 Seedlings	6,041 Pounds
	Acres & Yr. Pltd. 14 (1982) (1985)	8 (1983)		14 (1986) 26 (1985)	15 (1982) 4 (1983)	15 (1982)	20 (1983)	10 (1979)	538 Acres	
9	Species MDN-759 Pubescent wheatgrass	'Rodan' western wheatgrass	'Rosana' western wheatgrass	'Tomahawk' indiangrass 'Forestburg' switchgrass	'Pierre' sideoats grama	'Rodan western wheatgrass	'Rosana' western wheatgrass	'Garrison' creeping foxtail	TOTAL:	
SEED INCREASE AND PRODUCTION - 1986	Cooperator, Address Farmers Feed & Seed Belle Fourche, SD	(603-34/-3613)		USDI-FWS LaCreek NWR (605-685-6508)	D. Oldenburg	M. Foland	K. McNenny (605-347-2157)	LaVon Shearer (605-279-2198)		
	Field Office Belle Fourche			Martin	Philip		Sturgis	Wall		
SOUTH DAKOTA	Area 03									



